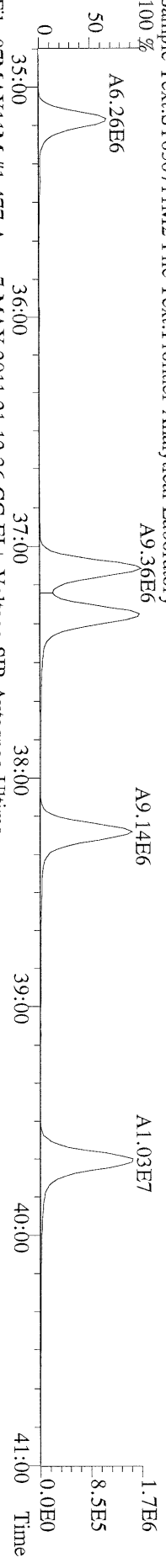
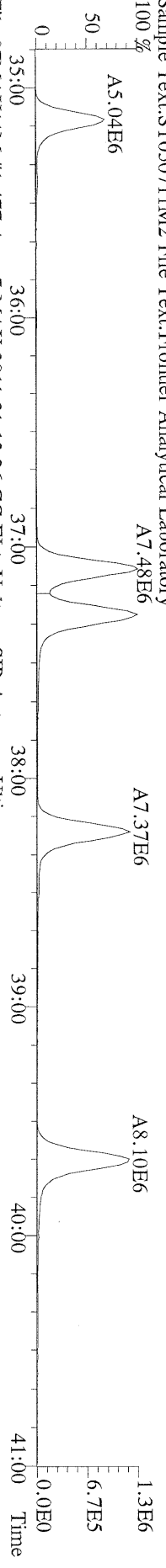


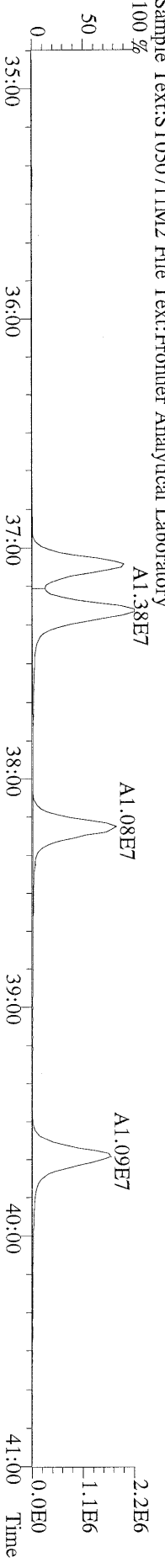
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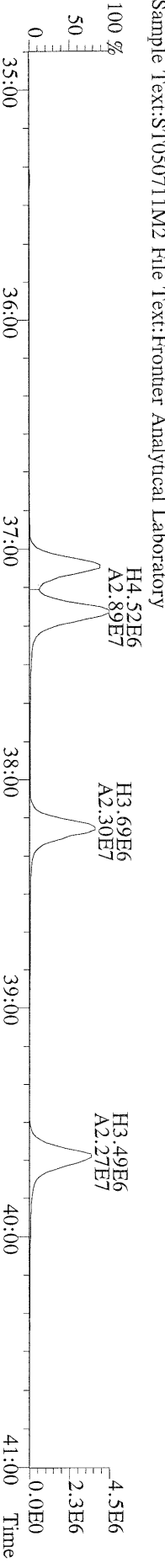
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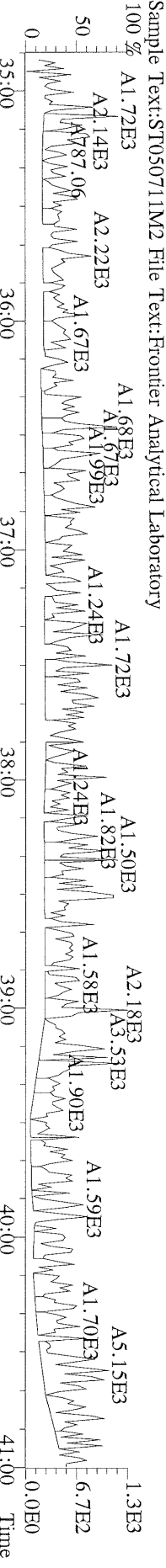
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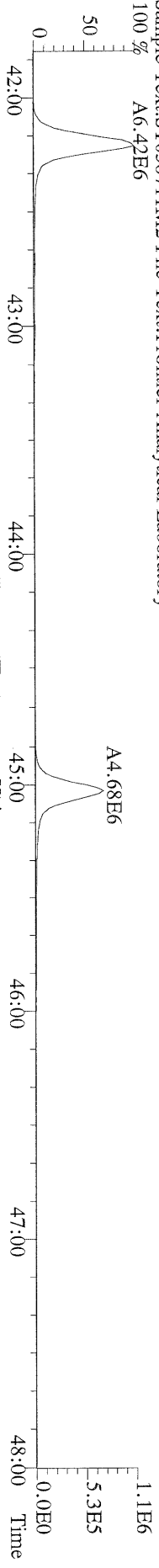
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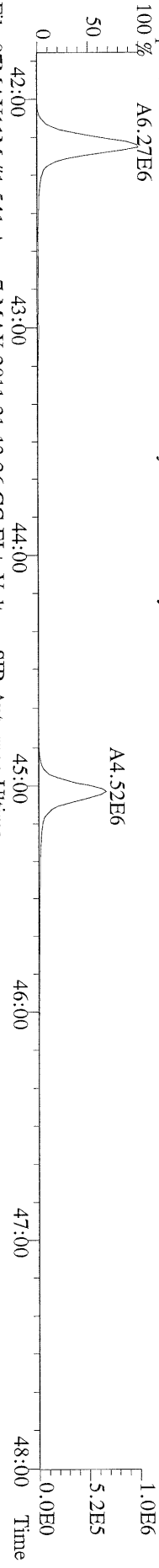
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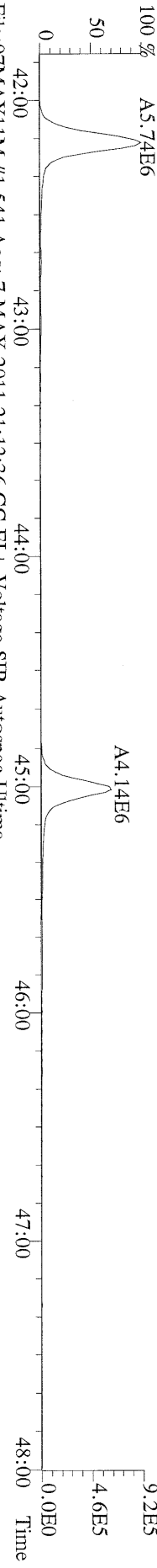
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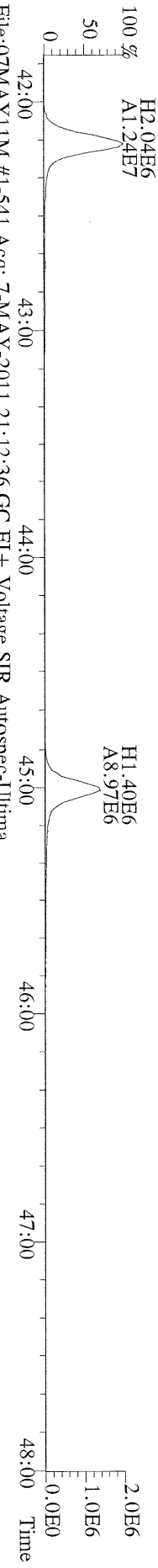
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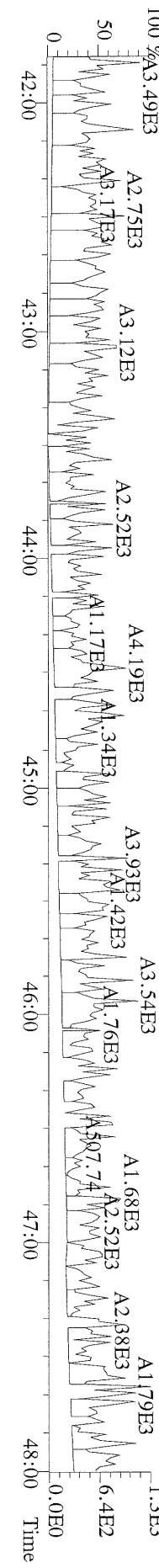
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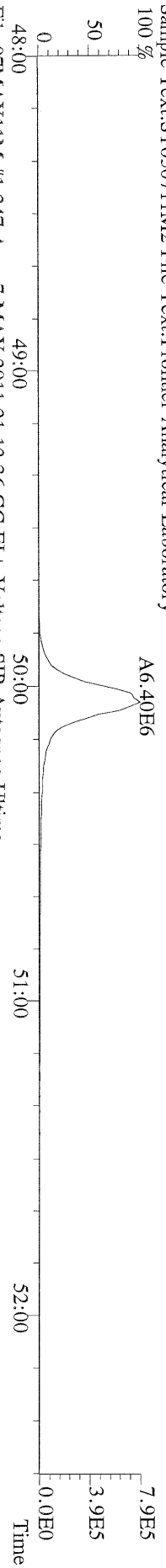
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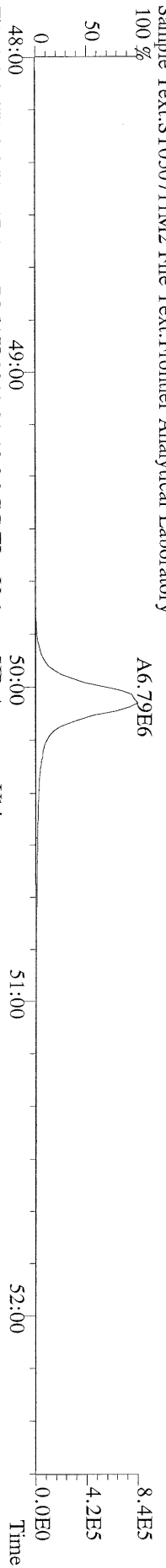
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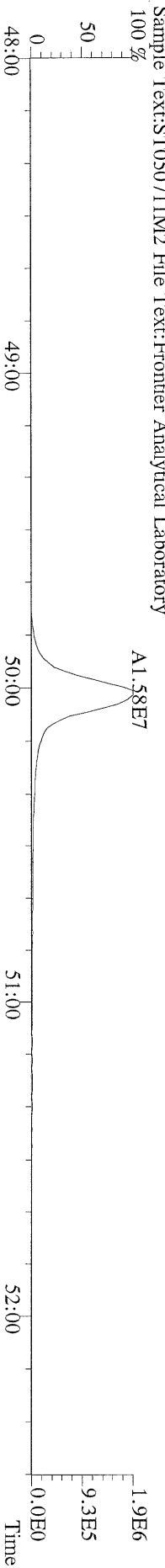
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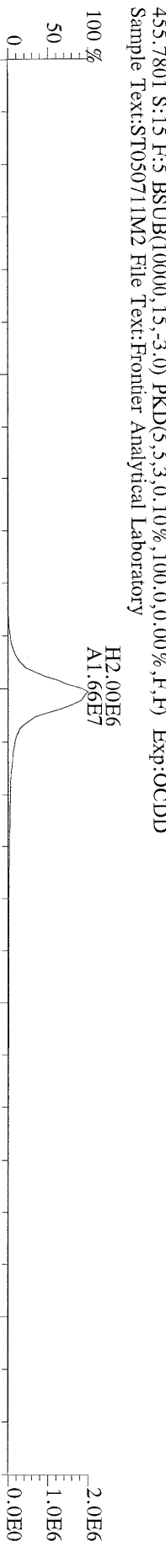
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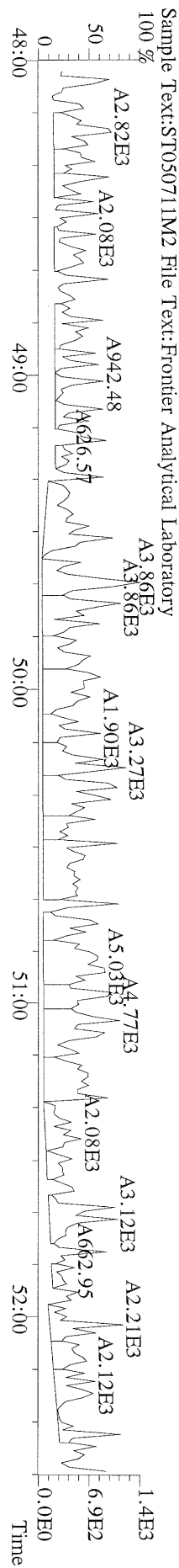
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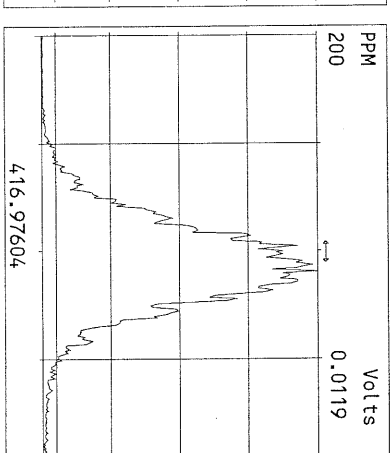
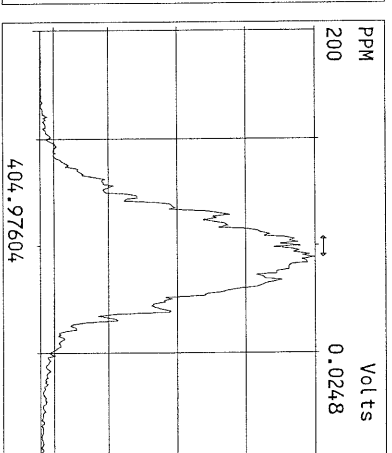
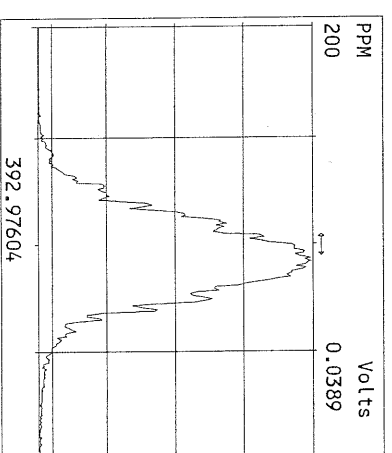
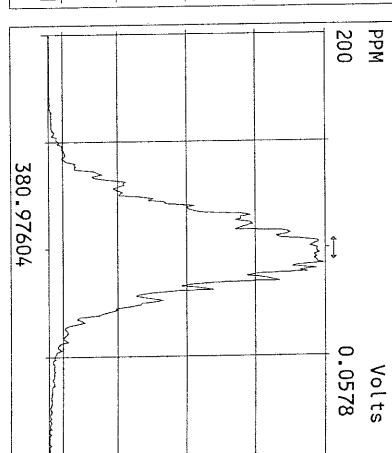
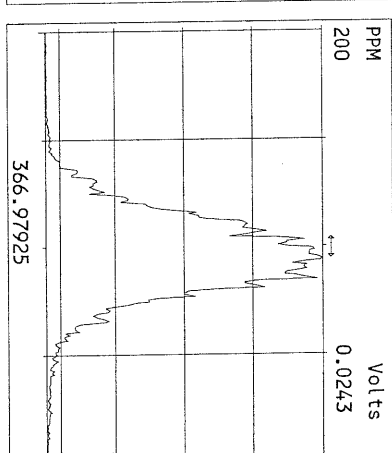
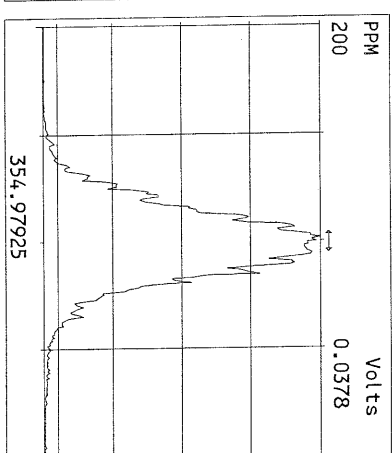
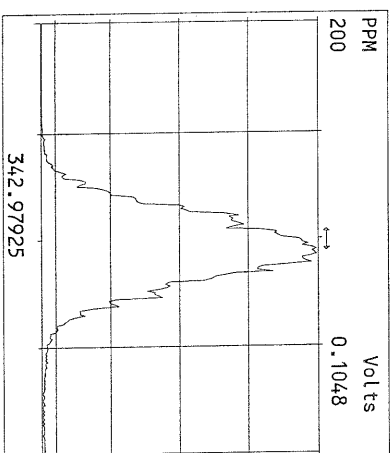
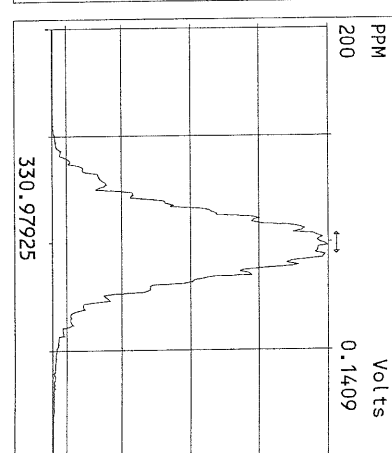
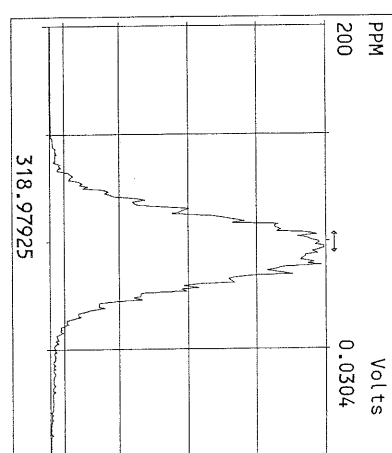
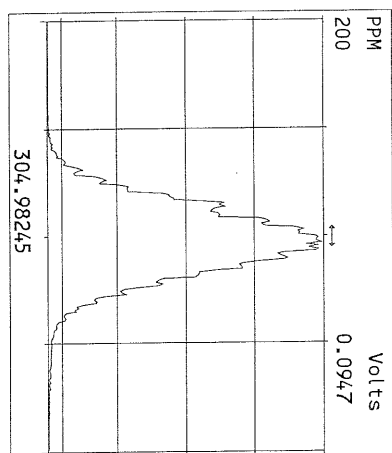
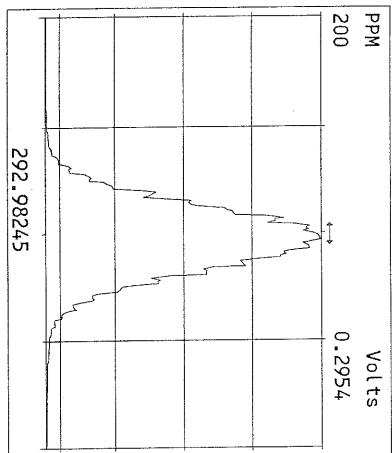
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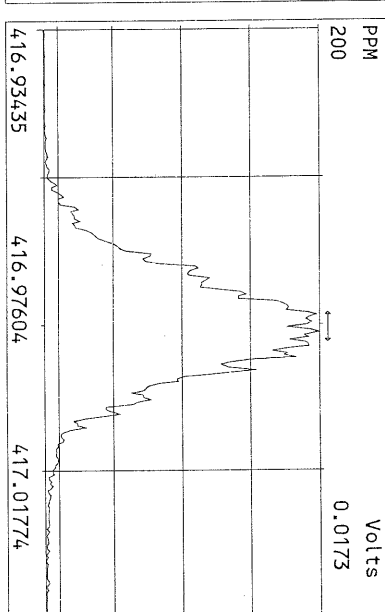
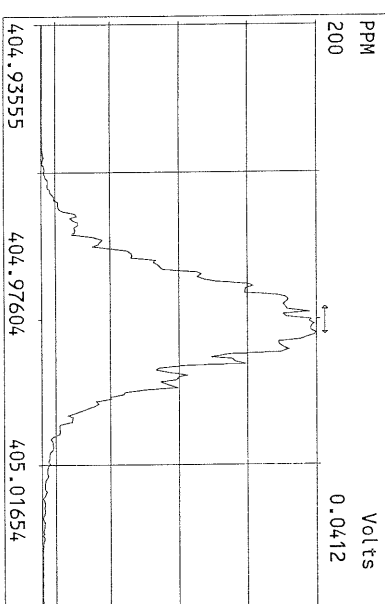
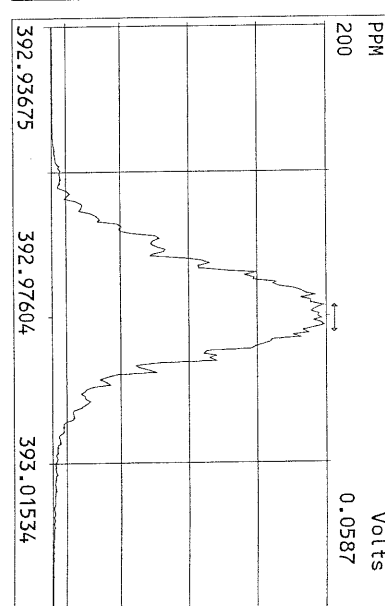
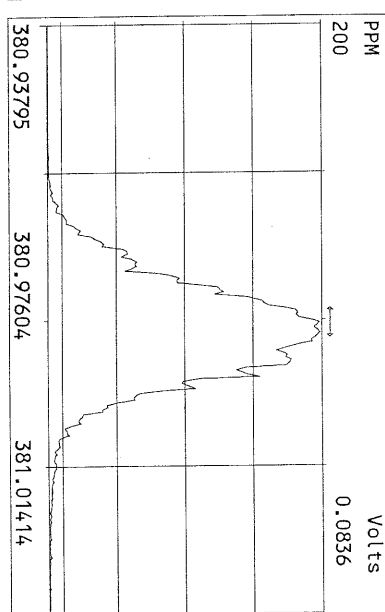
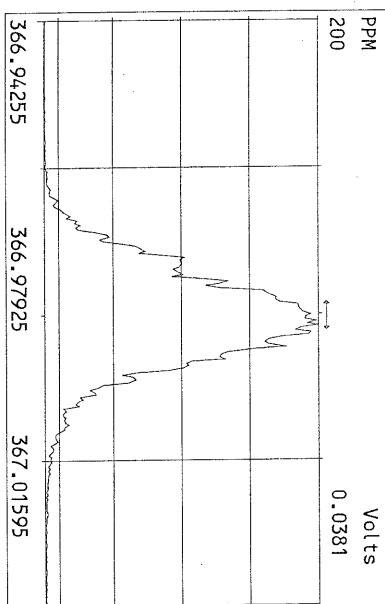
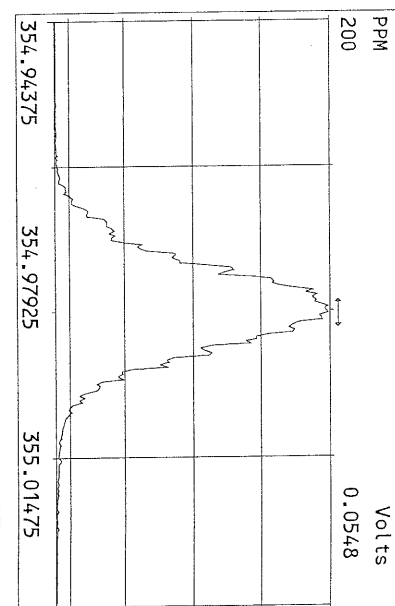
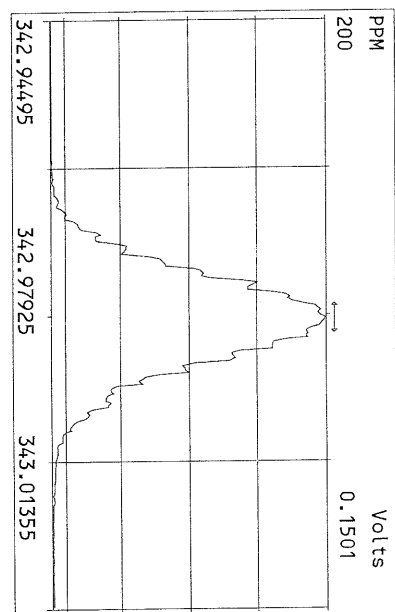
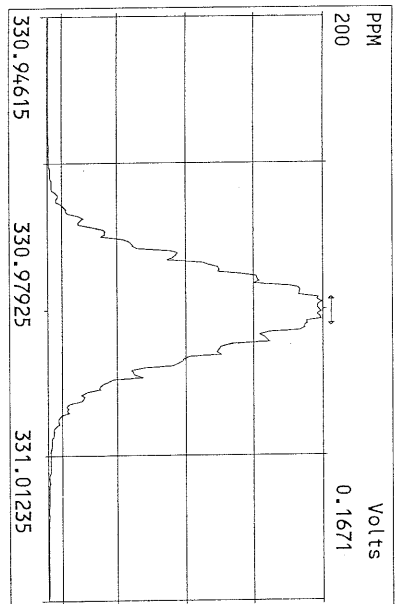


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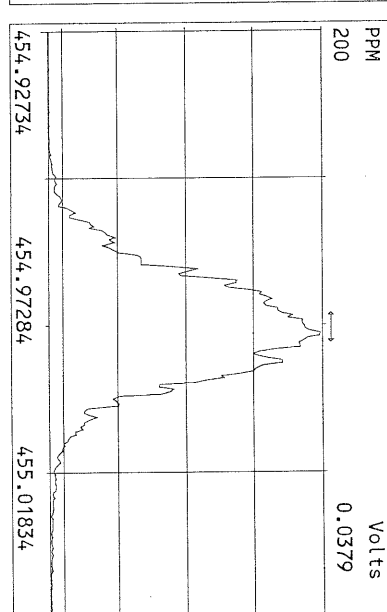
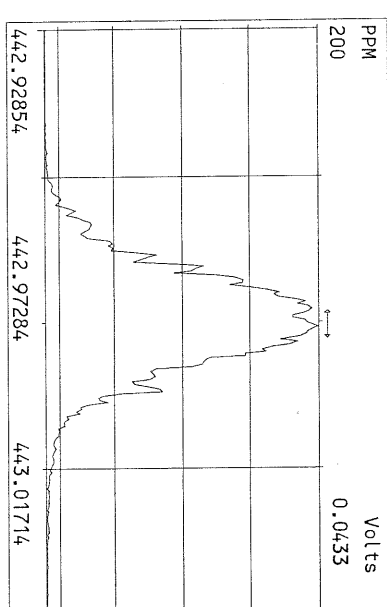
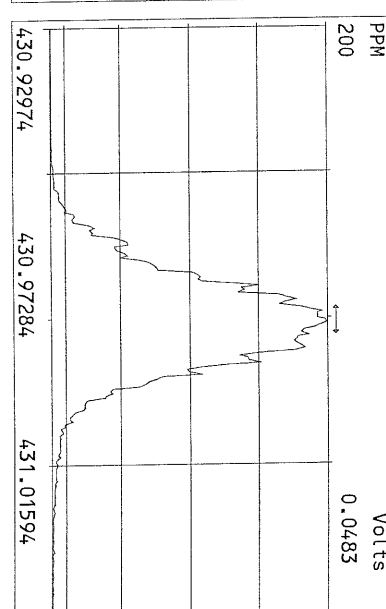
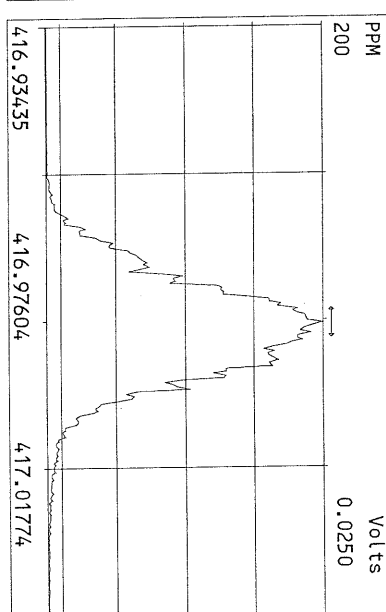
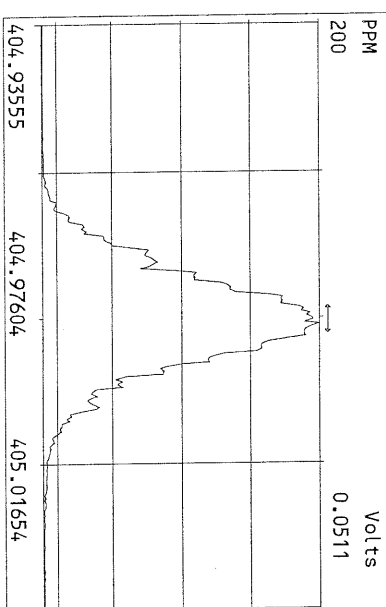
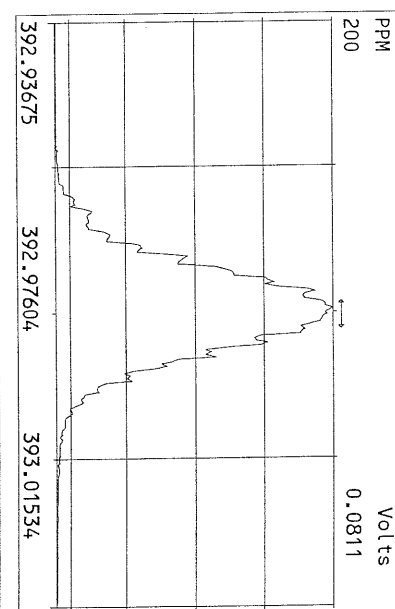
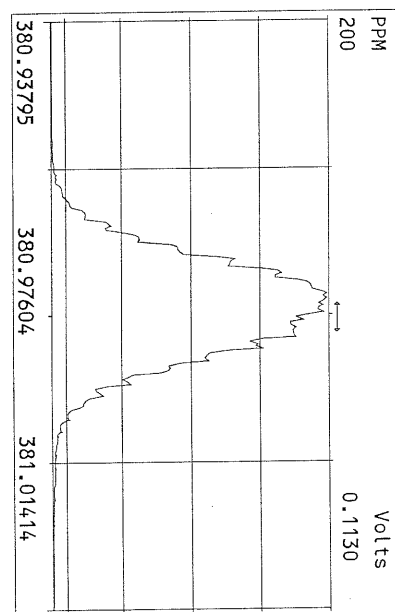
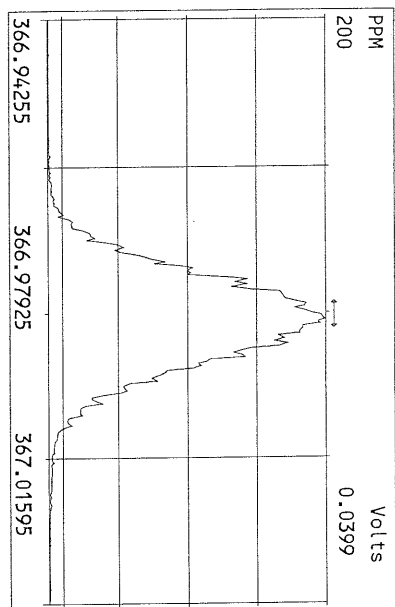


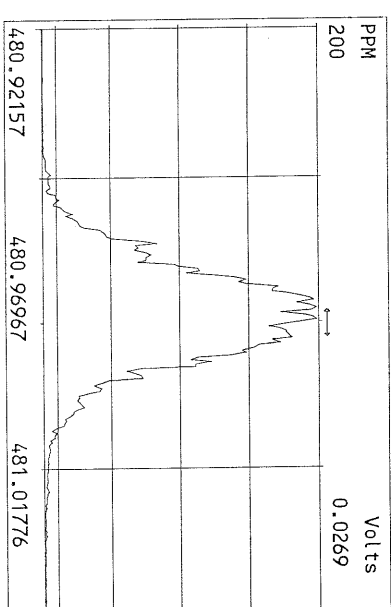
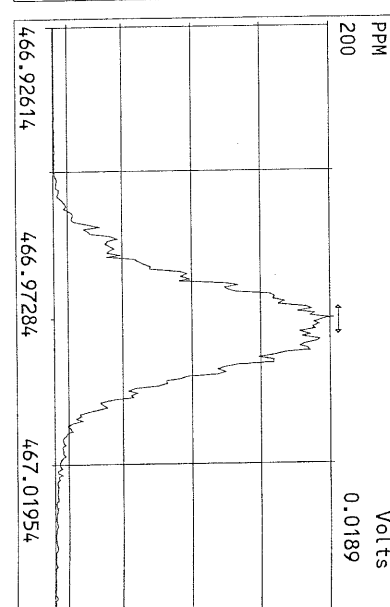
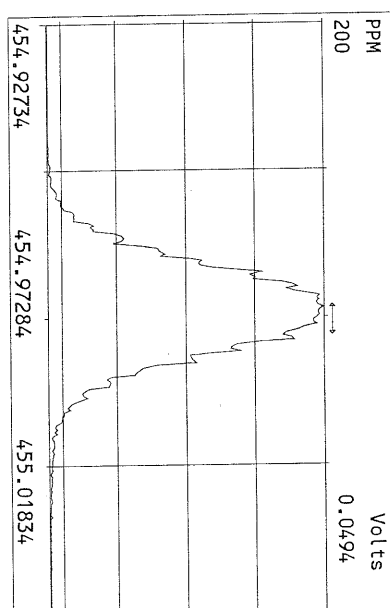
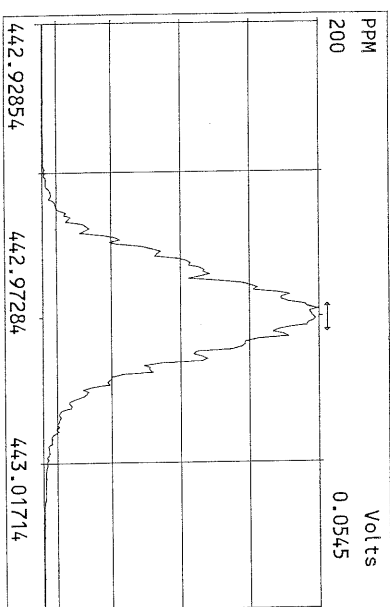
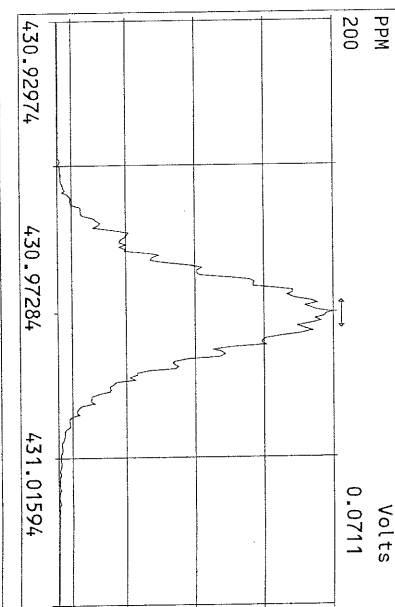
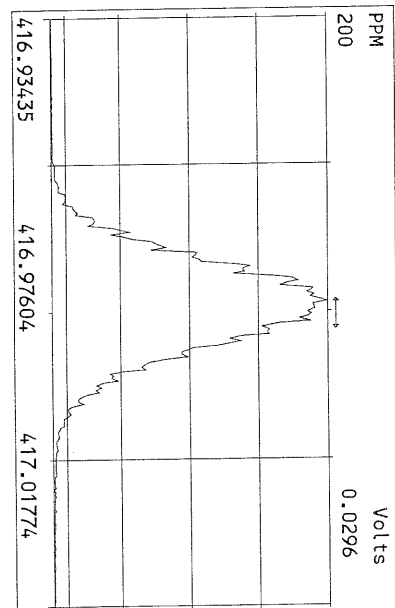
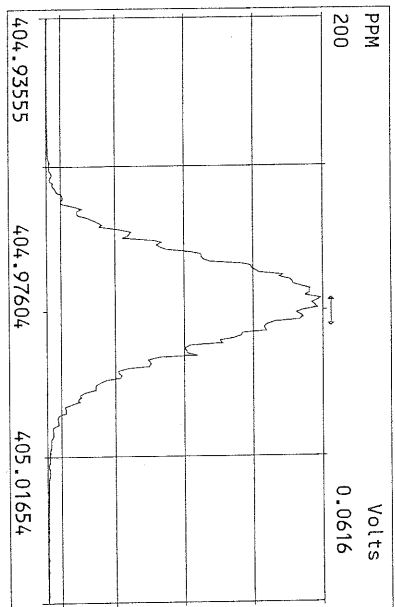
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Experiment:OCDD Function:1 Reference:PFK





Peak Locate Examination: 7-MAY-2011:22:14 File:07MAY11M_RES_CHECK
Experiment:OCCD Function:3 Reference:PK





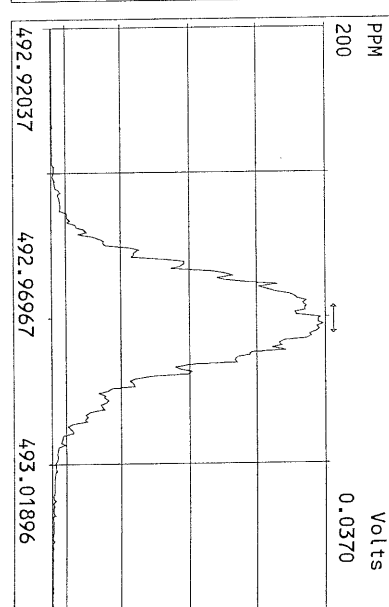
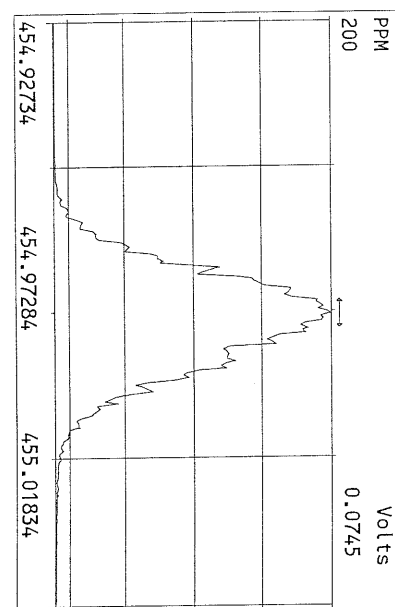
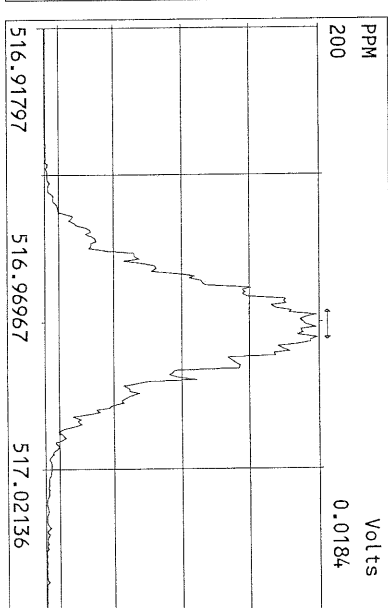
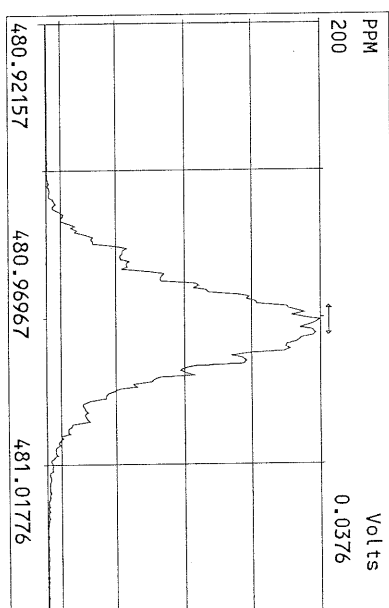
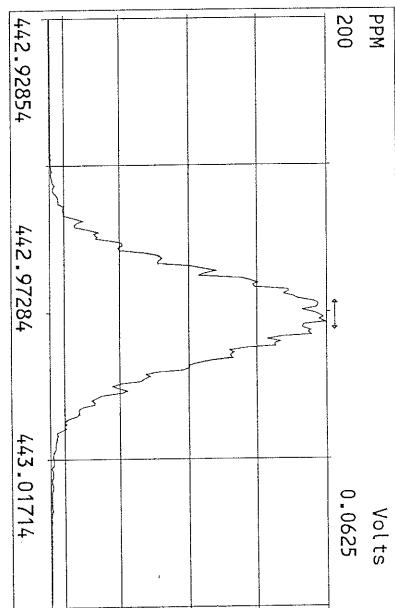
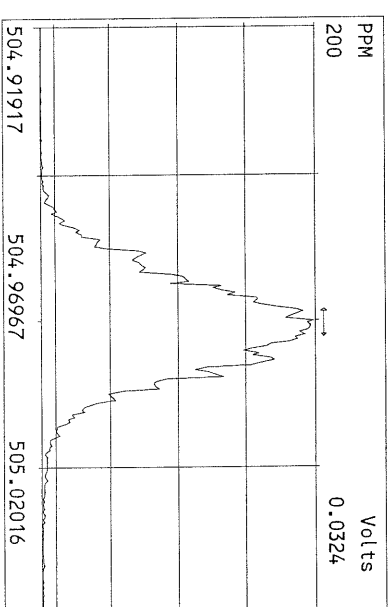
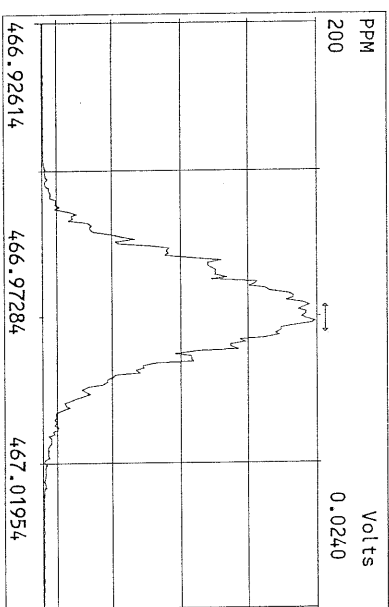
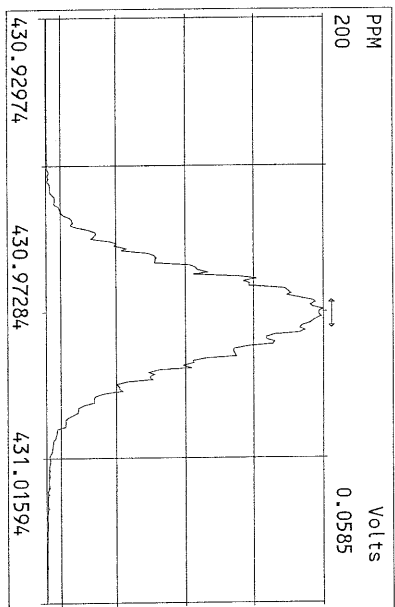



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Signature


April-29-2011
Date

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Project: POS-LL Lora Lake Parcel

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Signature

April-29-2011
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

May 18, 2011

Erin Breckel
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Lora Lake Parcel, POS-LL
ARI Job No: SS71

Dear Erin:

Please find enclosed the original Chain-of-Custody (COC) records, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

- for - Susan D. Dunnyhoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile SS71

Chain of Custody Documentation

ARI Job ID: SS71

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **5571** Turn-around Requested: _____ of **2**

ARI Client Company: **Floyd I Snider** Phone: **206-292-2078**

Client Contact: **Megan McLoughlin and Erin Breckel**

Client Project Name: **Lava Lake Parcel**

Client Project #: **POS-LL** Samplers: **TS DB**

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Page: **1** of **2**

Date: **4/19/11** Ice Present?

No. of Coolers: **4** Cooler Temps: **1.7, 2.4, 1.9, 1.6**

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments		
					CPAH 8270D	Benches 8041	NWTRH-DX	Arsenic and Lead USEPA 6010	BTEX 8021	Sulf VOCs USEPA 8260C		Dioxins USEPA 1613	Tox Plumb 1981
LL-SB6-0-0.5-041811	4/18/11	1450	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB6-1.5-2-041811	4/18/11	1505	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB6-2-4-041811	4/18/11	1515	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB5-0-0.5-041811	4/18/11	1600	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB5-1.5-2-041811	4/18/11	1615	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB5-2-4-041811	4/18/11	1630	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB4-0-0.5-041911	4/19/11	910	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB4-1.5-2-041911	4/19/11	925	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
LL-SB4-2-4-041911	4/19/11	945	Soil	30	✓	✓	✓	✓	✓	✓	✓	✓	MS/MSD
LL-SB3-0-0.5-041911	4/19/11	1120	Soil	10	✓	✓	✓	✓	✓	✓	✓	✓	
Comments/Special Instructions Report PCE, TCE, cis-1,2-dichloroethene, trans-1,2-dichloroethene and 1,2-dichloroethane only	Relinquished by: (Signature) <i>Floyd I Snider</i> Printed Name: Floyd I Snider Company: ARI Date & Time: 4/19/11 17:30		Received by: (Signature) <i>Jamie Milsgo</i> Printed Name: Jamie Milsgo Company: ARI Date & Time: 4/19/11 1730		Relinquished by: (Signature) Printed Name: Company:		Received by: (Signature) Printed Name: Company:		Date & Time:		Date & Time:		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **SS71** Turn-around Requested: **2** of **2**
 ARI Client Company: **Flayl Snider** Phone: **206-292-2878**
 Client Contact: **Megan McCullough, Erin Breckel**
 Client Project Name: **Lova Lake Parcel**
 Client Project #: **705-LL** Samplers: **TS DB**

Page: **2** of **2**
 Date: **4/19/11** Ice Present? **Y**
 No. of Coolers: **4** Cooler Temps: **1.7, 2.4, 1.9, 1.6**

Analysis Requested:
 USRA 8360D
 USRA 8011
 JMTFH-DX
 USRA 6010
 JMTFH-G
 BTX 8021
 Select Vials
 USRA 8260C
 Dioxins
 USRA 1613
 DC Plumb 1981
 Aroclor

Sample ID	Date	Time	Matrix	No. Containers	Notes/Comments
LL-SB3-1.5-2-041911	4/19/11	1130	Soil	10	✓
LL-SB3-2-4-041911	4/19/11	1140	Soil	10	✓
LL-SB2-0-0.5-041911	4/19/11	1345	Soil	10	✓
LL-SB2-1.5-2-041911	4/19/11	1400	Soil	10	✓
LL-SB2-2-3.5-041911	4/19/11	1475	Soil	10	✓
LL-SB1-0-0.5-041911	4/19/11	1510	Soil	10	✓
LL-SB1-0-0.5-041911-D	4/19/11	1515	Soil	10	✓
LL-SB1-1.5-2-041911	4/19/11	1535	Soil	10	✓
LL-SB1-2-4-041911	4/19/11	1550	Soil	10	✓
LL-ER-041911	4/19/11	1610	water	3	✓
Comments/Special Instructions	Relinquished by: (Signature) <i>Erin Breckel</i> Printed Name: Erin Breckel Company: Tucker Stevens Date & Time: 4/19/11 17:30				
*Only report tetrachloro ethene (PCE) trichloro ethene (TCE) cis,1,2-dichloro ethene trans,1,2-dichloro ethene 1,1,2-trichloro ethene	Relinquished by: (Signature) <i>Jennifer Millsof</i> Printed Name: Jennifer Millsof Company: AKI Date & Time: 4/19/11 1730				
	Received by: (Signature) Printed Name: Company: Date & Time:				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

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Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Cooler Receipt Form

ARI Client: Floyd/Saunders

Project Name: Lora Lake Parcel Parcel

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SS71

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 1.7 2.4 1.9 1.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 70941679

Cooler Accepted by: JM Date: 4/19/11 Time: 1730

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI..... NA

*Was Sample Split by ARI: NA Date/Time: 4-20-11/1015 Equipment: _____ Split by: JM

Samples Logged by: _____ Date: _____ Time: _____

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

* Sample LL-ER-041911, ~~was not~~ poured off sample into HNO₃ preserved bottle for metals analysis.

By: JM Date: 4/20/11

Small Air Bubbles ~2mm 	Peabubbles 2-4 mm 	LARGE Air Bubbles > 4 mm 	Small → "sm" Peabubbles → "pb" Large → "lg" Headspace → "hs"
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PRESERVATION VERIFICATION 04/20/11

Page 1 of 1

Inquiry Number: NONE
 Analysis Requested: 04/20/11
 Contact: McCullough, Megan
 Client: Floyd Snider
 Logged by: JM
 Sample Set Used: Yes-490
 Validatable Package: Yes
 Deliverables:



ARI Job No: **SS71**

PC: Sue D.
 VTSR: 04/19/11

Project #: POS-LL
 Project: Lora Lake Parcel
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM	ARI ID	CLIENT ID	CN	WAD	NH3	COD	FOG	MET	PHEN	PHOS	TKN	NO23	TOC	S2	AK102	Fe2+	DMET	DOC	FLT	FLT	PARAMETER	ADJUSTED	LOT	AMOUNT	DATE/BY
			>12	>12	<2	<2	<2	<2	<2	<2	<2	<2	<2	>9	<2	<2	FLT	FLT			TO	NUMBER	ADDED		
11-8673																									
SS71T		LL-ER-041911						TOC																	

SS71 : 00006

Checked By JM Date 4/20/11

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: SS71



Case Narrative

Client: Floyd Snider
Project: Lora Lake Parcel, POS-LL
ARI Job No.: SS71

Sample receipt

Analytical Resources, Inc. (ARI) accepted nineteen soil samples and one water sample on April 19, 2011 under ARI job SS71. Select samples were archived upon receipt. The cooler temperatures measured by IR thermometer following ARI SOP were between 1.6 and 2.4°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Dioxin/Furan analyses were subcontracted to Frontier Analytical Laboratory in El Dorado Hills, CA. The dioxin data on CD as generated by Frontier is forwarded with this package.

Volatiles by SW8260C

The samples and associated laboratory QC were analyzed within method recommended holding times.

Initial and continuing calibrations were within method requirements for requested compounds.

The internal standard areas of d4-1,4-Dichlorobenzene fell outside the control limits for several samples. The internal standard is not associated with requested compounds. No corrective action was taken.

The surrogate percent recoveries were within limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

All matrix spike and matrix spike duplicate percent recoveries were outside advisory control limits high for sample **LL-SB4-2-4-041911**. No corrective action is required for matrix QC.

SIM PAHs by SW8270D

The soil samples were initially screened to determine if a response was present that would require modifications in the extraction process. Based on the screen, no modifications were required. All samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.



Initial and continuing calibrations were within method requirements. The internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limits. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

The 'total' benzofluoranthenes result includes the response of the b, k and j isomers.

Pentachlorophenol by SW8041

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

Acid/Silica Cleaned NWTPH-Dx

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and spike duplicate percent recoveries were within advisory control limits.



NWTPH-Gx and BETX by SW8021

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

Total Arsenic and Lead by SW846 6010B

The samples and associated laboratory QC were digested and analyzed within the method recommended holding time.

The method blanks were clean at the reporting limits. The LCS percent recoveries were within control limits.

The matrix spike percent recoveries and duplicate RPDs were within control limits.

General Chemistry

The samples and associated laboratory QC were prepared and analyzed within the method recommended holding time.

The method blanks were clean at the reporting limits. The LCS percent recoveries were within control limits.

The SRM percent recoveries were within limits.

The matrix spike percent recovery and replicate RSDs were within control limits.

Sample ID Cross Reference Report



ARI Job No: SS71
Client: Floyd Snider
Project Event: POS-LL
Project Name: Lora Lake Parcel

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. LL-SB6-0-0.5-041811	SS71A	11-8654	Soil	04/18/11 14:50	04/19/11 17:30
2. LL-SB6-1.5-2-041811	SS71B	11-8655	Soil	04/18/11 15:05	04/19/11 17:30
3. LL-SB6-2-4-041811	SS71C	11-8656	Soil	04/18/11 15:15	04/19/11 17:30
4. LL-SB5-0-0.5-041811	SS71D	11-8657	Soil	04/18/11 16:00	04/19/11 17:30
5. LL-SB5-1.5-2-041811	SS71E	11-8658	Soil	04/18/11 16:15	04/19/11 17:30
6. LL-SB5-2-4-041811	SS71F	11-8659	Soil	04/18/11 16:30	04/19/11 17:30
7. LL-SB4-0-0.5-041911	SS71G	11-8660	Soil	04/19/11 09:10	04/19/11 17:30
8. LL-SB4-1.5-2-041911	SS71H	11-8661	Soil	04/19/11 09:25	04/19/11 17:30
9. LL-SB4-2-4-041911	SS71I	11-8662	Soil	04/19/11 09:45	04/19/11 17:30
10. LL-SB3-0-0.5-041911	SS71J	11-8663	Soil	04/19/11 11:20	04/19/11 17:30
11. LL-SB3-1.5-2-041911	SS71K	11-8664	Soil	04/19/11 11:30	04/19/11 17:30
12. LL-SB3-2-4-041911	SS71L	11-8665	Soil	04/19/11 11:40	04/19/11 17:30
13. LL-SB2-0-0.5-041911	SS71M	11-8666	Soil	04/19/11 13:45	04/19/11 17:30
14. LL-SB2-1.5-2-041911	SS71N	11-8667	Soil	04/19/11 14:00	04/19/11 17:30
15. LL-SB2-2-3.5-041911	SS71O	11-8668	Soil	04/19/11 14:15	04/19/11 17:30
16. LL-SB1-0-0.5-041911	SS71P	11-8669	Soil	04/19/11 15:10	04/19/11 17:30
17. LL-SB1-0-0.5-041911-D	SS71Q	11-8670	Soil	04/19/11 15:15	04/19/11 17:30
18. LL-SB1-1.5-2-041911	SS71R	11-8671	Soil	04/19/11 15:35	04/19/11 17:30
19. LL-SB1-2-4-041911	SS71S	11-8672	Soil	04/19/11 15:50	04/19/11 17:30
20. LL-ER-041911	SS71T	11-8673	Water	04/19/11 16:10	04/19/11 17:30

Printed 04/20/11

SURR SOLUTIONS

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1824-2	ABN	100/150	MEOH	07/22/11
B	1834-6	SIM PNA	15/75	ACETONE	10/05/11
C	NA	SIM ABN	25/37.5	MEOH	03/08/11
D	1795-4	LOW PCB	0.2	ACETONE	12/16/11
E	1771-3	HERB	62.5	MEOH	10/06/11
F	1791-3	PCP	12.5	ACETONE	12/09/11
G	1824-1	d8-DIOXANE	100	MEOH	08/14/11
H	1847-2	OP-PEST	25	ACETONE	03/23/12
I	1835-1	LOW S. PNA	1.5	ACETONE	10/05/11
J	1787-2	TBT-PORE	0.125	MECL2	11/27/11
K	1795-2	MED PCB	20	ACETONE	12/16/11
L	1785-4	TBT	2.5	MECL2	11/27/11
M	1767-1	EPH	1500	MECL2	06/02/11
N	1795-3	PCB	2	ACETONE	12/16/11
O	1821-3	TPH	450	MECL2	09/07/11
P	1813-2	HCID	2250	MECL2	08/05/11
Q	NA	EDB	1	MEOH	NA
R	1757-3	RESIN ACID	250	ACETONE	08/14/11
S*	NA	PBDE	.25	MEOH	NA
T	1768-2	ALKYL PNA	10	MEOH	07/22/11
U	NA	CONGENER	2.5	ACETONE	NA
V	1791-4	LOW PCP	1.25	ACETONE	12/09/11
*reverified solution					

LCS SOLUTIONS

LABL SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1837-2	PCB 1660	20	ACETONE 01/01/12
2#	NA	BCOC PEST	10	ACETONE NA
3	1793-3	PEST	01/02/10	ACETONE 12/15/11
4	1806-2	LOW PEST	.1/2/1	ACETONE 12/15/11
5	1779-1	EPH	1500	MECL2 11/11/11
6	1791-5	PCP	12.5/125	ACETONE 12/10/11
7	1834-4	ABN	100	MEOH 08/21/11
8	1785-3	TBT	2.5	MECL2 11/27/11
9	1786-3	PORE TBT	.125/.25	MECL2 11/27/11
10	1790-1	ABN ACID	100/200	MEOH 06/07/11
11	1777-2	TPHD	15000	ACETONE 11/01/11
12	1790-2	ABN BASE	200	MEOH 06/07/11
13	1838-4	LOW PCB	2	ACETONE 01/31/12
14	1822-2	LOW ABN ACID	10/20	MEOH 06/07/11
15	1814-2	SIM PNA	15/75	MEOH 01/04/12
16	1834-5	1,4-DIOXANE	100	MEOH 08/25/11
17	1772-3	1248 PCB	10	ACETONE 05/01/11
18	1814-3	LOW SIM PNA	1.5	ACETONE 01/04/12
19	1815-2	AK103	7500	ACETONE 06/02/11
20	1843-3	PNA	100	ACETONE 08/14/11
21	1844-3	SKY/BHT	100	MEOH 09/24/11
22	1781-1	HERB	05 to 4000	MEOH 04/15/11
23	1822-3	LW ABN BASE	20	MEOH 06/07/11
24	1822-4	LOW ABN	10	ACETONE 10/01/11
25#	NA	DIPHENYL	100	MEOH NA
26	1823-1	OP-PEST	25	MEOH 07/01/11
27	NA	STEROLS	200	MEOH NA
28#	1807-1	ADD. PEST	2	ACETONE 08/31/11
29#	NA	DECANES	100	MEOH NA

LCS SOLUTIONS

30	NA	EDB/DBCP	0.2	MEOH	NA
31	1835-2	TERPINEOL	100	MEOH	09/02/11
32	NA	GUAIACOL	50-200	ACETONE	NA
33	NA	RETENE	100	MEOH	NA
34	1842-1	CONGENERS	0.5	ACETONE	03/14/12
35	NA	ALKYL PNA A	10	MEOH	NA
36	NA	ALKYL PNA B	10	MEOH	NA
37	1773-1	CAR/PERY	100	ACETONE	10/14/11
38	1846-2	ABN ACID	200-450	MEOH	09/25/11
50	1757-4	FULL RESIN	250	ACETONE	08/14/11
51	1772-1	DDTS	0.01	ACETONE	04/24/11
52	NA	1232 PCB	20	ACETONE	NA
53	1780-1	DALAPON	50	MEOH	05/07/11
54	1753-1	T-CHLORDANE	10	ACETONE	07/21/11
55	1753-2	TOXAPHENE	50	ACETONE	07/21/11
56	1846-3	ABN BASE	50-200	MEOH	09/25/11
#=PROJECT SPECIFIC SOLUTION					
*=REVERIFIED SOLUTION					



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾
Effective:5/18/09**

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	Low Level ⁽¹⁾	Low Level ME Limits ⁽³⁾	Medium Level ⁽²⁾	Medium Level ME Limits ⁽³⁾
LCS Spike Recovery ⁽⁸⁾				
Dichlorodifluoromethane	53 - 148	37 - 164	25 - 128	10 - 145
Chloromethane	64 - 125	54 - 135	55 - 121	44 - 132
Vinyl Chloride	63 - 137	51 - 149	66 - 123	57 - 133
Bromomethane	57 - 136	44 - 149	40 - 154	21 - 173
Chloroethane	64 - 131	53 - 142	72 - 128	63 - 137
Trichlorofluoromethane	69 - 132	59 - 143	69 - 135	58 - 146
Acrolein	54 - 137	40 - 151	39 - 135	23 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	74 - 130	65 - 139	65 - 139	53 - 151
Acetone	60 - 131	48 - 143	55 - 130	43 - 143
1,1-Dichloroethene	75 - 126	67 - 135	73 - 133	63 - 143
Bromoethane	76 - 126	68 - 134	74 - 133	64 - 143
Methyl Iodide	65 - 139	53 - 151	47 - 155	29 - 173
Methylene Chloride	70 - 123	61 - 132	80 - 120	75 - 122
Acrylonitrile	67 - 125	57 - 135	62 - 129	51 - 140
Methyl tert-Butyl Ether	70 - 120	62 - 128	69 - 128	59 - 138
Carbon Disulfide	71 - 129	61 - 139	64 - 135	52 - 147
trans-1,2-Dichloroethene	80 - 120	74 - 126	78 - 125	70 - 133
Vinyl Acetate	60 - 136	47 - 149	66 - 132	55 - 143
1,1-Dichloroethane	80 - 120	75 - 124	77 - 124	69 - 132
2-Butanone	70 - 120	62 - 127	65 - 126	55 - 136
2,2-Dichloropropane	74 - 123	66 - 131	75 - 127	66 - 136
cis-1,2-Dichloroethene	80 - 120	76 - 123	80 - 125	74 - 132
Chloroform	80 - 120	74 - 123	80 - 124	73 - 131
Bromodichloromethane	77 - 121	70 - 128	78 - 130	69 - 139
1,1,1-Trichloroethane	77 - 121	70 - 128	76 - 130	67 - 139
1,1-Dichloropropene	80 - 120	77 - 123	77 - 131	68 - 140
Carbon Tetrachloride	77 - 122	70 - 130	74 - 129	65 - 138
1,2-Dichloroethane	76 - 120	69 - 123	73 - 123	65 - 131
Benzene	80 - 120	80 - 126	80 - 120	75 - 130
Trichloroethene	80 - 120	77 - 123	80 - 125	75 - 132
1,2-Dichloropropane	80 - 120	76 - 120	80 - 122	74 - 129
Bromochloromethane	80 - 120	73 - 127	80 - 127	73 - 135
Dibromomethane	80 - 120	74 - 121	80 - 121	76 - 128
2-Chloroethylvinylether	10 - 191	10 - 222	61 - 128	50 - 139



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾
Effective:5/18/09**

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	Low Level ⁽¹⁾	Low Level ME Limits ⁽³⁾	Medium Level ⁽²⁾	Medium Level ME Limits ⁽³⁾
4-Methyl-2-Pentanone	67 - 120	59 - 125	80 - 123	73 - 130
cis-1,3-Dichloropropene	74 - 120	67 - 125	80 - 122	73 - 129
Toluene	80 - 120	79 - 120	80 - 122	80 - 127
trans-1,3-Dichloropropene	65 - 120	57 - 125	80 - 123	79 - 129
2-Hexanone	65 - 130	54 - 141	58 - 129	46 - 141
1,1,2-Trichloroethane	80 - 120	75 - 122	80 - 120	77 - 126
1,3-Dichloropropane	80 - 120	74 - 122	80 - 120	76 - 126
Tetrachloroethene	80 - 121	79 - 127	80 - 130	73 - 138
Dibromochloromethane	64 - 120	55 - 128	77 - 120	70 - 127
Ethylene Dibromide	75 - 120	68 - 124	80 - 120	80 - 120
Chlorobenzene	80 - 120	82 - 120	80 - 121	80 - 127
Ethylbenzene	80 - 127	80 - 134	80 - 126	80 - 132
1,1,2,2-Tetrachloroethane	74 - 120	66 - 128	79 - 120	73 - 123
m,p-Xylene	80 - 125	80 - 131	80 - 130	80 - 137
o-Xylene	78 - 120	71 - 126	80 - 124	80 - 130
Styrene	80 - 123	78 - 130	80 - 132	77 - 140
Isopropylbenzene	80 - 127	84 - 133	80 - 130	80 - 137
Bromoform	60 - 120	50 - 128	68 - 129	58 - 139
1,1,1,2-Tetrachloroethane	69 - 121	60 - 130	80 - 126	76 - 133
1,2,3-Trichloropropane	72 - 121	64 - 129	77 - 120	71 - 121
trans-1,4-Dichloro-2-butene	65 - 126	55 - 136	66 - 127	56 - 137
n-Propylbenzene	80 - 132	80 - 139	80 - 132	77 - 140
Bromobenzene	80 - 120	78 - 122	80 - 121	80 - 127
1,3,5-Trimethylbenzene	80 - 125	80 - 131	78 - 137	68 - 147
2-Chlorotoluene	80 - 125	77 - 132	80 - 123	80 - 129
4-Chlorotoluene	80 - 127	77 - 134	80 - 130	74 - 138
tert-Butylbenzene	87 - 122	80 - 128	80 - 133	78 - 141
1,2,4-Trimethylbenzene	80 - 126	80 - 132	80 - 131	79 - 139
sec-Butylbenzene	80 - 134	80 - 142	80 - 136	76 - 146
4-Isopropyltoluene	80 - 131	80 - 138	80 - 141	71 - 151
1,3-Dichlorobenzene	80 - 120	80 - 126	80 126	77 - 133
1,4-Dichlorobenzene	80 - 120	79 - 126	80 121	77 - 127
n-Butylbenzene	80 - 138	80 - 146	80 - 138	77 - 147
1,2-Dichlorobenzene	80 - 120	78 - 122	80 - 120	80 - 121
1,2-Dibromo-3-chloropropane	59 - 120	49 - 130	67 - 121	58 - 130
1,2,4-Trichlorobenzene	78 - 130	69 - 139	80 - 133	72 - 142



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾
Effective:5/18/09**

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	Low Level ⁽¹⁾	Low Level ME Limits ⁽³⁾	Medium Level ⁽²⁾	Medium Level ME Limits ⁽³⁾
Hexachloro-1,3-butadiene	76 - 129	67 - 138	62 - 148	48 - 162
Naphthalene	66 - 120	58 - 126	74 - 133	64 - 143
1,2,3-Trichlorobenzene	73 - 123	65 - 131	80 - 126	72 - 134
MB/LCS Surrogate Recovery				
Dibromofluoromethane	80 - 120	(4)	80 - 120	(4)
d4-1,2-Dichloroethane	79 - 121	(4)	76 - 120	(4)
d8-Toluene	80 - 120	(4)	80 - 120	(4)
4-Bromofluorobenzene	80 - 120	(4)	80 - 120	(4)
d4-1,2-Dichlorobenzene	80 - 120	(4)	80 - 120	(4)
Sample Surrogate Recovery				
Dibromofluoromethane	30 - 160 ⁽⁶⁾	(4)	30 - 160 ⁽⁶⁾	(4)
d4-1,2-Dichloroethane	75 - 152	(4)	69 - 120	(4)
d8-Toluene	82 - 115	(4)	80 - 120	(4)
4-Bromofluorobenzene	64 - 120	(4)	76 - 128	(4)
d4-1,2-Dichlorobenzene	80 - 120	(4)	80 - 120	(4)

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.

(2) Control Limits calculated using all data generated 3/1/07 through 11/15/07.

(3) **ME = A marginal exceedance** defined in the NELAC Standard⁽⁵⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of four marginal exceedances are acceptable. Five or more marginal exceedances require corrective action.

(4) Marginal Exceedances not allowed for surrogate standards

(5) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.

(6) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses

(7) Highlighted control limits (**bold font**) are adjusted from the calculated values as follows:

a) ARI does not use control limits < 10

b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(8) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



Spike Recovery Control Limits for Polycyclic Aromatic Hydrocarbons Selected Ion Monitoring (SIM) EPA Method SW-846-8270D-Modified ^(1,7)

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Matrix	Water		Soil	
Sample Volume / Final Volume	500 mL to 0.5 mL		7.5 g / 0.5 mL	
	Control Limits	ME Limits ⁽²⁾	Control Limits	ME Limits ⁽²⁾
LCS Spike Recovery ⁽⁶⁾				
Napthalene	39 - 100	30 - 102	37 - 100	27 - 107
2-Methylnapthalene	39 - 100	31 - 100	37 - 100	28 - 100
1-Methylnapthalene	30 - 160 ⁽³⁾	30 - 160 ⁽³⁾	30 - 160 ⁽³⁾	30 - 160 ⁽³⁾
Acenaphthylene	37 - 100	27 - 111	35 - 100	26 - 102
Acenaphthene	42 - 100	33 - 107	39 - 100	31 - 100
Dibenzofuran	46 - 100	38 - 101	39 - 100	31 - 100
Fluorene	49 - 101	40 - 110	42 - 100	33 - 106
Phenanthrene	55 - 101	47 - 109	47 - 100	38 - 108
Anthracene	47 - 102	38 - 111	41 - 106	30 - 117
Fluoranthene	60 - 106	52 - 114	52 - 109	43 - 119
Pyrene	55 - 110	46 - 119	47 - 111	36 - 122
Benz(a)anthracene	56 - 104	48 - 112	47 - 114	36 - 125
Chrysene	58 - 104	50 - 112	51 - 106	42 - 115
Benzofluoranthene(s) (Total)	30 - 160 ⁽⁸⁾	30 - 160 ⁽⁸⁾	30 - 160 ⁽⁸⁾	30 - 160 ⁽⁸⁾
Benzo(a)pyrene	32 - 110	19 - 123	44 - 111	33 - 122
Indeno(1,2,3-cd)pyrene	50 - 114	39 - 125	41 - 114	29 - 126
Dibenzo(a,h)anthracene	42 - 121	29 - 134	42 - 116	30 - 128
Benzo(g,h,i)perylene	50 - 113	40 - 124	37 - 115	27 - 107
MB / LCS Surrogate Recovery				
d10-2-Methylnaphthalene	36 - 101	(4)	35 - 100	(4)
d14-Dibenzo(a,h)anthracene	42 - 121	(4)	37 - 120	(4)
Sample Surrogate Recovery				
d10-2-Methylnaphthalene	30 - 106	(4)	34 - 100	(4)
d14-Dibenzo(a,h)anthracene	10 - 130	(4)	10 - 117	(4)

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/31/08.

(2) **ME = A marginal exceedance** defined in the NELAC Standard ⁽⁵⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. **A maximum of one marginal exceedance is acceptable.** Two or more marginal exceedances require corrective action.

(3) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses.

(4) Marginal Exceedances not allowed for surrogate standards.

(5) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.

(6) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

(7) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(8) Default limits pending generation of historic limits for total benzofluoranthrenes (7/29/10)



Spike Recovery Control Limits for Chlorinated Phenols
EPA Method SW-846-8041^(1,2)
Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

	ARI's Calculated Control Limits	
	Water	Soil / Sediment
Sample Matrix:		
Sample Amount / Final Volume:	500 / 50 mL	10 g / 25 mL
LCS Spike Recovery⁽³⁾		
Pentachlorophenol	27 - 115	10 - 162
Method Blank/LCS Surrogate Recovery		
2,4,6-Tribromophenol	40 - 130	50 - 115
Sample Surrogate Recovery		
2,4,6-Tribromophenol	11 - 156	10 - 146

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID) and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) ⁽¹⁾ Effective 10/4/10				
Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip				
Method:	NWTPH-HCID ⁽²⁾	NWTPH-D		AK102 ⁽²⁾
Sample Matrix:	Water& Soil	Water ⁽³⁾	Soil ⁽⁴⁾	Water & Soil
Preparation:	500 to 1 mL	500 to 1 mL	10g to 1 mL	500 to 1 mL or 10g to 1 mL
LCS Spike Recovery ⁽⁵⁾				
Diesel	-	60 - 111	64 - 116	75 - 125
Diesel with Acid & Silica Clean-up	-	49 - 107	59 - 108	(6)
Diesel with Silica Clean-up		49 - 107	59 - 108	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-	56 - 130	64 - 134	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-	53 - 123	59 - 134	(6)
o-Terphenyl Silica Clean-up		53 - 123	59 - 134	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	52 - 134	52 - 130	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-	49 - 118	43 - 137	(6)
o-Terphenyl with Silica Clean-up	-	49 - 118	43 - 137	50 - 150

1. Control Limits calculated using all data generated 1/1/10 through 9/1/10
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. Separatory Funnel Extraction – EPA Method 3510C
4. Microwave Extraction – EPA Method 3546
5. Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
6. Alaska State UST Methods do not allow acid cleanup of sample extracts.



**Spike Recovery Control Limits BTEX – EPA Method 8021 &
Gasoline – Methods NWTPH-G and AK101^(1,2)**

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Matrix:	Aqueous Samples		Soil / Sediment Samples	
Analytical Method:	Method 8021B	NWTPH-G AK-101	Method 8021B	NWTPH-G AK-101
LCS Spike Recovery ⁽³⁾				
Benzene	73 - 120		72 - 120	
Toluene	73 - 120		72 - 120	
Ethyl benzene	69 - 120		71 - 120	
<i>m,p</i> -Xylenes	72 - 120		72 - 120	
<i>o</i> -Xlyene	73 - 120		72 - 120	
MTBE	30 - 182		40 - 163	
Gasoline		75 - 124		74 - 124
Method Blank/LCS Surrogate Recovery				
Trifluorotoluene (TFT)	79 - 120	80 - 120	80 - 120	80 - 120
Bromobenzene	79 - 120	80 - 120	77 - 120	80 - 120
Sample Surrogate Recovery				
Trifluorotoluene (TFT)	80 - 120	80 - 120	68 - 124	66 - 123
Bromobenzene	80 - 120	80 - 120	62 - 134	62 - 130

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.

(2) Highlighted control limits (bold font) are adjusted from the calculated values as follows:

a) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

b) Control limits for analytes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



Summary of Laboratory Control Limits Metals Analyses (All Methods & Sample Matrices)

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Element	Matrix Spike Recovery	LCS Recovery	Replicate RPD
Aluminum	75 - 125	80 - 120	≤ 20%
Antimony	75 - 125	80 - 120	≤ 20%
Arsenic	75 - 125	80 - 120	≤ 20%
Barium	75 - 125	80 - 120	≤ 20%
Beryllium	75 - 125	80 - 120	≤ 20%
Boron	75 - 125	80 - 120	≤ 20%
Cadmium	75 - 125	80 - 120	≤ 20%
Calcium	75 - 125	80 - 120	≤ 20%
Chromium	75 - 125	80 - 120	≤ 20%
Cobalt	75 - 125	80 - 120	≤ 20%
Copper	75 - 125	80 - 120	≤ 20%
Iron	75 - 125	80 - 120	≤ 20%
Lead	75 - 125	80 - 120	≤ 20%
Magnesium	75 - 125	80 - 120	≤ 20%
Manganese	75 - 125	80 - 120	≤ 20%
Mercury	75 - 125	80 - 120	≤ 20%
Nickel	75 - 125	80 - 120	≤ 20%
Potassium	75 - 125	80 - 120	≤ 20%
Selenium	75 - 125	80 - 120	≤ 20%
Silica	75 - 125	80 - 120	≤ 20%
Silver	75 - 125	80 - 120	≤ 20%
Sodium	75 - 125	80 - 120	≤ 20%
Strontium	75 - 125	80 - 120	≤ 20%
Thallium	75 - 125	80 - 120	≤ 20%
Vanadium	75 - 125	80 - 120	≤ 20%
Zinc	75 - 125	80 - 120	≤ 20%



Spike Recovery Control Limits for Conventional Wet Chemistry
Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Matrix:	ARI's Control Limits	
	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 - 125	75 - 125
Chloride	75 - 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

**Volatile Analysis
Report and Summary QC Forms**

ARI Job ID: SS71

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB6-0-0.5-041811

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SAMPLE

Lab Sample ID: SS71A

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8654

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MMW*

Date Sampled: 04/18/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 3.95 g-dry-wt

Date Analyzed: 04/22/11 11:54

Purge Volume: 5.0 mL

Moisture: 17.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3	U
107-06-2	1,2-Dichloroethane	1.3	< 1.3	U
79-01-6	Trichloroethene	1.3	< 1.3	U
127-18-4	Tetrachloroethene	1.3	< 1.3	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	96.6%
Bromofluorobenzene	80.2%
d4-1,2-Dichlorobenzene	96.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB6-1.5-2-041811

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SAMPLE

Lab Sample ID: SS71B

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8655

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *YWW*

Date Sampled: 04/18/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.57 g-dry-wt

Date Analyzed: 04/22/11 12:18

Purge Volume: 5.0 mL

Moisture: 12.2%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	97.1%
Bromofluorobenzene	84.5%
d4-1,2-Dichlorobenzene	97.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB6-2-4-041811

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SAMPLE

Lab Sample ID: SS71C

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8656

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MW*

Date Sampled: 04/18/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.41 g-dry-wt

Date Analyzed: 04/22/11 12:45

Purge Volume: 5.0 mL

Moisture: 11.0%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	97.1%
Bromofluorobenzene	86.0%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB5-0-0.5-041811

Page 1 of 1

SAMPLE

Lab Sample ID: SS71D

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8657

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MWJ*

Date Sampled: 04/18/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 3.44 g-dry-wt

Date Analyzed: 04/22/11 13:13

Purge Volume: 5.0 mL

Moisture: 28.7%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.5	< 1.5	U
156-59-2	cis-1,2-Dichloroethene	1.5	< 1.5	U
107-06-2	1,2-Dichloroethane	1.5	< 1.5	U
79-01-6	Trichloroethene	1.5	< 1.5	U
127-18-4	Tetrachloroethene	1.5	< 1.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	91.4%
Bromofluorobenzene	71.1%
d4-1,2-Dichlorobenzene	94.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB5-1.5-2-041811

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SAMPLE

Lab Sample ID: SS71E

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8658

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *WV*

Date Sampled: 04/18/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.72 g-dry-wt

Date Analyzed: 04/22/11 13:41

Purge Volume: 5.0 mL

Moisture: 12.8%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	94.8%
Bromofluorobenzene	80.8%
d4-1,2-Dichlorobenzene	99.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB5-2-4-041811

Page 1 of 1

SAMPLE

Lab Sample ID: SS71F

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8659

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *WJW*

Date Sampled: 04/18/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.60 g-dry-wt

Date Analyzed: 04/22/11 14:09

Purge Volume: 5.0 mL

Moisture: 18.7%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	97.3%
Bromofluorobenzene	74.2%
d4-1,2-Dichlorobenzene	94.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB4-0-0.5-041911

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SAMPLE

Lab Sample ID: SS71G

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8660

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.18 g-dry-wt

Date Analyzed: 04/22/11 14:37

Purge Volume: 5.0 mL

Moisture: 17.3%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.2	< 1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	< 1.2	U
107-06-2	1,2-Dichloroethane	1.2	< 1.2	U
79-01-6	Trichloroethene	1.2	< 1.2	U
127-18-4	Tetrachloroethene	1.2	< 1.2	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	121%
d8-Toluene	92.2%
Bromofluorobenzene	73.2%
d4-1,2-Dichlorobenzene	94.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB4-1.5-2-041911

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SAMPLE

Lab Sample ID: SS71H

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8661

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *mm*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.01 g-dry-wt

Date Analyzed: 04/22/11 15:04

Purge Volume: 5.0 mL

Moisture: 11.4%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	96.2%
Bromofluorobenzene	90.4%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB4-2-4-041911

Page 1 of 1

SAMPLE

Lab Sample ID: SS71I

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *YWW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.40 g-dry-wt

Date Analyzed: 04/22/11 15:32

Purge Volume: 5.0 mL

Moisture: 13.9%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	96.0%
Bromofluorobenzene	91.7%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: LL-SB3-0-0.5-041911
SAMPLE

Lab Sample ID: SS71J
LIMS ID: 11-8663
Matrix: Soil
Data Release Authorized: *MM*
Reported: 04/26/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB
Date Analyzed: 04/22/11 16:00

Sample Amount: 5.45 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 13.3%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	95.4%
Bromofluorobenzene	81.4%
d4-1,2-Dichlorobenzene	96.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB3-1.5-2-041911

Page 1 of 1

SAMPLE

Lab Sample ID: SS71K

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8664

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *WVW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.80 g-dry-wt

Date Analyzed: 04/22/11 16:28

Purge Volume: 5.0 mL

Moisture: 10.3%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	95.0%
Bromofluorobenzene	91.1%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB3-2-4-041911

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SAMPLE

Lab Sample ID: SS71L

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8665

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.67 g-dry-wt

Date Analyzed: 04/22/11 16:55

Purge Volume: 5.0 mL

Moisture: 11.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	129%
d8-Toluene	95.5%
Bromofluorobenzene	88.2%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB2-0-0.5-041911

Page 1 of 1

SAMPLE

Lab Sample ID: SS71M

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8666

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.21 g-dry-wt

Date Analyzed: 04/22/11 17:23

Purge Volume: 5.0 mL

Moisture: 12.8%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	96.9%
Bromofluorobenzene	80.0%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB2-1.5-2-041911

Page 1 of 1

SAMPLE

Lab Sample ID: SS71N

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8667

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *YMW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.81 g-dry-wt

Date Analyzed: 04/22/11 17:51

Purge Volume: 5.0 mL

Moisture: 8.4%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	101%
Bromofluorobenzene	90.7%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB2-2-3.5-041911

Page 1 of 1

SAMPLE

Lab Sample ID: SS710

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8668

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *WJW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.33 g-dry-wt

Date Analyzed: 04/22/11 18:19

Purge Volume: 5.0 mL

Moisture: 10.0%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.9	< 0.9	U
156-59-2	cis-1,2-Dichloroethene	0.9	< 0.9	U
107-06-2	1,2-Dichloroethane	0.9	< 0.9	U
79-01-6	Trichloroethene	0.9	< 0.9	U
127-18-4	Tetrachloroethene	0.9	< 0.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	96.6%
Bromofluorobenzene	88.9%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method #W8260C

Sample ID: LL-SB1-0-0.5-041911

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SAMPLE

Lab Sample ID: SS71P

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8669

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *W*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.85 g-dry-wt

Date Analyzed: 04/22/11 18:46

Purge Volume: 5.0 mL

Moisture: 7.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	97.2%
Bromofluorobenzene	89.2%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB1-0-0.5-041911-D

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SAMPLE

Lab Sample ID: SS71Q


QC Report No: SS71-Floyd Snider

LIMS ID: 11-8670

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: 

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.48 g-dry-wt

Date Analyzed: 04/22/11 19:14

Purge Volume: 5.0 mL

Moisture: 7.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	96.6%
Bromofluorobenzene	90.4%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB1-1.5-2-041911

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SAMPLE

Lab Sample ID: SS71R

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8671

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.14 g-dry-wt

Date Analyzed: 04/22/11 20:37

Purge Volume: 5.0 mL

Moisture: 8.3%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	125%
d8-Toluene	98.0%
Bromofluorobenzene	91.0%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB1-2-4-041911

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SAMPLE

Lab Sample ID: SS71S

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8672

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MMW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.21 g-dry-wt

Date Analyzed: 04/25/11 12:09

Purge Volume: 5.0 mL

Moisture: 9.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	126%
d8-Toluene	96.2%
Bromofluorobenzene	86.4%
d4-1,2-Dichlorobenzene	99.5%

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
SS71A	LL-SB6-0-0.5-041811	Low	124%	96.6%	80.2%	96.6%	0
SS71B	LL-SB6-1.5-2-041811	Low	126%	97.1%	84.5%	97.4%	0
SS71C	LL-SB6-2-4-041811	Low	125%	97.1%	86.0%	101%	0
SS71D	LL-SB5-0-0.5-041811	Low	127%	91.4%	71.1%	94.4%	0
SS71E	LL-SB5-1.5-2-041811	Low	123%	94.8%	80.8%	99.7%	0
SS71F	LL-SB5-2-4-041811	Low	122%	97.3%	74.2%	94.0%	0
SS71G	LL-SB4-0-0.5-041911	Low	121%	92.2%	73.2%	94.7%	0
SS71H	LL-SB4-1.5-2-041911	Low	123%	96.2%	90.4%	103%	0
MB-042211	Method Blank	Low	117%	97.4%	92.6%	101%	0
LCS-042211	Lab Control	Low	107%	96.4%	96.9%	102%	0
LCSD-042211	Lab Control Dup	Low	112%	103%	98.1%	102%	0
SS71I	LL-SB4-2-4-041911	Low	124%	96.0%	91.7%	102%	0
SS71IMS	LL-SB4-2-4-041911	Low	114%	96.8%	96.1%	102%	0
SS71IMSD	LL-SB4-2-4-041911	Low	114%	99.8%	96.8%	100%	0
SS71J	LL-SB3-0-0.5-041911	Low	127%	95.4%	81.4%	96.3%	0
SS71K	LL-SB3-1.5-2-041911	Low	128%	95.0%	91.1%	102%	0
SS71L	LL-SB3-2-4-041911	Low	129%	95.5%	88.2%	100%	0
SS71M	LL-SB2-0-0.5-041911	Low	125%	96.9%	80.0%	100%	0
SS71N	LL-SB2-1.5-2-041911	Low	124%	101%	90.7%	104%	0
SS71O	LL-SB2-2-3.5-041911	Low	127%	96.6%	88.9%	103%	0
SS71P	LL-SB1-0-0.5-041911	Low	125%	97.2%	89.2%	102%	0
SS71Q	LL-SB1-0-0.5-041911-D	Low	125%	96.6%	90.4%	103%	0
SS71R	LL-SB1-1.5-2-041911	Low	125%	98.0%	91.0%	101%	0
MB-042511	Method Blank	Low	112%	96.7%	91.9%	103%	0
LCS-042511	Lab Control	Low	100%	99.1%	96.1%	101%	0
LCSD-042511	Lab Control Dup	Low	103%	99.6%	98.3%	102%	0
SS71S	LL-SB1-2-4-041911	Low	126%	96.2%	86.4%	99.5%	0

LCS/MB LIMITS

QC LIMITS

	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 11-8654 to 11-8672

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB4-2-4-041911

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MATRIX SPIKE

Lab Sample ID: SS71I

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MMW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst MS: FINN5/PAB

Sample Amount MS: 4.68 g-dry-wt

MSD: FINN5/PAB

MSD: 4.69 g-dry-wt

Date Analyzed MS: 04/22/11 19:42

Purge Volume MS: 5.0 mL

MSD: 04/22/11 20:09

MSD: 5.0 mL

Moisture: 13.9%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
trans-1,2-Dichloroethene	< 0.9 U	70.1	53.4	131%	74.7	53.3	140%	6.4%
cis-1,2-Dichloroethene	< 0.9 U	72.0	53.4	135%	74.9	53.3	141%	3.9%
1,2-Dichloroethane	< 0.9 U	70.2	53.4	131%	78.2	53.3	147%	10.8%
Trichloroethene	< 0.9 U	68.2	53.4	128%	75.6	53.3	142%	10.3%
Tetrachloroethene	< 0.9 U	71.1	53.4	133%	77.5	53.3	145%	8.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB4-2-4-041911

Page 1 of 1

MATRIX SPIKE

Lab Sample ID: SS71I

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *WVW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.68 g-dry-wt

Date Analyzed: 04/22/11 19:42

Purge Volume: 5.0 mL

Moisture: 13.9%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.1	---	
156-59-2	cis-1,2-Dichloroethene	1.1	---	
107-06-2	1,2-Dichloroethane	1.1	---	
79-01-6	Trichloroethene	1.1	---	
127-18-4	Tetrachloroethene	1.1	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	96.8%
Bromofluorobenzene	96.1%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LL-SB4-2-4-041911

Page 1 of 1

MATRIX SPIKE DUP

Lab Sample ID: SS71I

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MW*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Instrument/Analyst: FINN5/PAB

Sample Amount: 4.69 g-dry-wt

Date Analyzed: 04/22/11 20:09

Purge Volume: 5.0 mL

Moisture: 13.9%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.1	---	
156-59-2	cis-1,2-Dichloroethene	1.1	---	
107-06-2	1,2-Dichloroethane	1.1	---	
79-01-6	Trichloroethene	1.1	---	
127-18-4	Tetrachloroethene	1.1	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	99.8%
Bromofluorobenzene	96.8%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: LCS-042211

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LAB CONTROL SAMPLE

Lab Sample ID: LCS-042211

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MW*

Date Sampled: NA

Reported: 04/26/11

Date Received: NA

Instrument/Analyst LCS: FINN5/PAB

Sample Amount LCS: 5.00 g-dry-wt

LCSD: FINN5/PAB

LCSD: 5.00 g-dry-wt

Date Analyzed LCS: 04/22/11 10:06

Purge Volume LCS: 5.0 mL

LCSD: 04/22/11 10:42

LCSD: 5.0 mL

Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
trans-1,2-Dichloroethene	45.2	50.0	90.4%	51.7	50.0	103%	13.4%
cis-1,2-Dichloroethene	43.3	50.0	86.6%	51.8	50.0	104%	17.9%
1,2-Dichloroethane	45.1	50.0	90.2%	52.4	50.0	105%	15.0%
Trichloroethene	43.8	50.0	87.6%	53.4	50.0	107%	19.8%
Tetrachloroethene	45.8	50.0	91.6%	52.9	50.0	106%	14.4%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	107%	112%
d8-Toluene	96.4%	103%
Bromofluorobenzene	96.9%	98.1%
d4-1,2-Dichlorobenzene	102%	102%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C
Page 1 of 1

Sample ID: LCS-042511
LAB CONTROL SAMPLE

Lab Sample ID: LCS-042511
LIMS ID: 11-8672
Matrix: Soil
Data Release Authorized: *MW*
Reported: 04/26/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN5/PAB
LCSD: FINN5/PAB
Date Analyzed LCS: 04/25/11 10:27
LCSD: 04/25/11 11:02

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike	LCS	LCSD	Spike	LCSD	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
trans-1,2-Dichloroethene	53.2	50.0	106%	54.5	50.0	109%	2.4%
cis-1,2-Dichloroethene	51.1	50.0	102%	55.4	50.0	111%	8.1%
1,2-Dichloroethane	52.8	50.0	106%	54.0	50.0	108%	2.2%
Trichloroethene	52.4	50.0	105%	54.5	50.0	109%	3.9%
Tetrachloroethene	52.2	50.0	104%	54.3	50.0	109%	3.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	100%	103%
d8-Toluene	99.1%	99.6%
Bromofluorobenzene	96.1%	98.3%
d4-1,2-Dichlorobenzene	101%	102%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0422

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIM

Lab File ID: MB0422

Lab Sample ID: MB0422

Date Analyzed: 04/22/11

Time Analyzed: 1110

Instrument ID: FINN5

Heated Purge: (Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0422	LCS0422	LCS0422	1006
02	LCS0422	LCS0422	LCS0422X	1042
03	LL-SB6-0-0.5	SS71A	SS71A	1154
04	LL-SB6-1.5-2	SS71B	SS71B	1218
05	LL-SB6-2-4-0	SS71C	SS71C	1245
06	LL-SB5-0-0.5	SS71D	SS71D	1313
07	LL-SB5-1.5-2	SS71E	SS71E	1341
08	LL-SB5-2-4-0	SS71F	SS71F	1409
09	LL-SB4-0-0.5	SS71G	SS71G	1437
10	LL-SB4-1.5-2	SS71H	SS71H	1504
11	LL-SB4-2-4-0	SS71I	SS71I	1532
12	LL-SB3-0-0.5	SS71J	SS71J	1600
13	LL-SB3-1.5-2	SS71K	SS71K	1628
14	LL-SB3-2-4-0	SS71L	SS71L	1655
15	LL-SB2-0-0.5	SS71M	SS71M	1723
16	LL-SB2-1.5-2	SS71N	SS71N	1751
17	LL-SB2-2-3.5	SS71O	SS71O	1819
18	LL-SB1-0-0.5	SS71P	SS71P	1846
19	LL-SB1-0-0.5	SS71Q	SS71Q	1914
20	LL-SB4-2-4-0	SS71IMS	SS71IMS	1942
21	LL-SB4-2-4-0	SS71IMSD	SS71IMSD	2009
22	LL-SB1-1.5-2	SS71R	SS71R	2037
23				
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-042211

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-042211

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *MMW*

Date Sampled: NA

Reported: 04/26/11

Date Received: NA

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 04/22/11 11:10

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	97.4%
Bromofluorobenzene	92.6%
d4-1,2-Dichlorobenzene	101%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0425

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIM

Lab File ID: MB0425

Lab Sample ID: MB0425

Date Analyzed: 04/25/11

Time Analyzed: 1130

Instrument ID: FINN5

Heated Purge: (Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0425	LCS0425	LCS0425	1027
02	LCS0425	LCS0425	LCS0425A	1102
03	LL-SB1-2-4-0	SS71S	SS71S2	1209
04				
05				
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-042511

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-042511

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8672

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *mw*

Date Sampled: NA

Reported: 04/26/11

Date Received: NA

Instrument/Analyst: FINN5/PAB

Sample Amount: 5.00 g-dry-wt

Date Analyzed: 04/25/11 11:30

Purge Volume: 5.0 mL

Moisture: NA

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	96.7%
Bromofluorobenzene	91.9%
d4-1,2-Dichlorobenzene	103%

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE SURFACE SEDIMENT SDG No.: SS71

Lab File ID: BFB0309 BFB Injection Date: 03/09/11

Instrument ID: FINN5 BFB Injection Time: 1159

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	40.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 101.0% of mass 95	86.0
175	4.0 - 9.0% of mass 174	6.4 (7.5)1
176	93.0 - 101.0% of mass 174	82.2 (95.6)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD1	IC0309	0010309	03/09/11	1310
02	VSTD200	IC0309	2000309	03/09/11	1353
03	VSTD150	IC0309	1500309	03/09/11	1427
04	VSTD100	IC0309	1000309	03/09/11	1455
05	VSTD50	IC0309	0500309	03/09/11	1522
06	VSTD10	IC0309	0100309	03/09/11	1550
07	VSTD5	IC0309	0050309	03/09/11	1618
08	VSTD2	IC0309	0020309	03/09/11	1651
09					
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21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE SURFACE SEDIMENT SDG No.: SS71

Lab File ID: BFB0422X BFB Injection Date: 04/22/11

Instrument ID: FINN5 BFB Injection Time: 0853

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.4
75	30.0 - 66.0% of mass 95	40.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 101.0% of mass 95	89.5
175	4.0 - 9.0% of mass 174	6.5 (7.3)1
176	93.0 - 101.0% of mass 174	87.0 (97.2)1
177	5.0 - 9.0% of mass 176	5.9 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	CC0422	05004221	04/22/11	0914
02	LCS0422	LCS0422	LCS0422	04/22/11	1006
03	LCS0422	LCS0422	LCS0422X	04/22/11	1042
04	MB0422	MB0422	MB0422	04/22/11	1110
05	LL-SB6-0-0.5-041	SS71A	SS71A	04/22/11	1154
06	LL-SB6-1.5-2-041	SS71B	SS71B	04/22/11	1218
07	LL-SB6-2-4-04181	SS71C	SS71C	04/22/11	1245
08	LL-SB5-0-0.5-041	SS71D	SS71D	04/22/11	1313
09	LL-SB5-1.5-2-041	SS71E	SS71E	04/22/11	1341
10	LL-SB5-2-4-04181	SS71F	SS71F	04/22/11	1409
11	LL-SB4-0-0.5-041	SS71G	SS71G	04/22/11	1437
12	LL-SB4-1.5-2-041	SS71H	SS71H	04/22/11	1504
13	LL-SB4-2-4-04191	SS71I	SS71I	04/22/11	1532
14	LL-SB3-0-0.5-041	SS71J	SS71J	04/22/11	1600
15	LL-SB3-1.5-2-041	SS71K	SS71K	04/22/11	1628
16	LL-SB3-2-4-04191	SS71L	SS71L	04/22/11	1655
17	LL-SB2-0-0.5-041	SS71M	SS71M	04/22/11	1723
18	LL-SB2-1.5-2-041	SS71N	SS71N	04/22/11	1751
19	LL-SB2-2-3.5-041	SS71O	SS71O	04/22/11	1819
20	LL-SB1-0-0.5-041	SS71P	SS71P	04/22/11	1846
21	LL-SB1-0-0.5-041	SS71Q	SS71Q	04/22/11	1914
22	LL-SB4-2-4-0419	SS71IMS	SS71IMS	04/22/11	1942

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE SURFACE SEDIMENT SDG No.: SS71

Lab File ID: BFB0422X BFB Injection Date: 04/22/11

Instrument ID: FINN5 BFB Injection Time: 0853

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.4
75	30.0 - 66.0% of mass 95	40.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 101.0% of mass 95	89.5
175	4.0 - 9.0% of mass 174	6.5 (7.3)1
176	93.0 - 101.0% of mass 174	87.0 (97.2)1
177	5.0 - 9.0% of mass 176	5.9 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LL-SB4-2-4-0419	SS71IMSD	SS71IMSD	04/22/11	2009
02	LL-SB1-1.5-2-041	SS71R	SS71R	04/22/11	2037
03					
04					
05					
06					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE SURFACE SEDIMENT SDG No.: SS71

Lab File ID: BFB0425 BFB Injection Date: 04/25/11

Instrument ID: FINN5 BFB Injection Time: 0838

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.0
75	30.0 - 66.0% of mass 95	40.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 101.0% of mass 95	78.1
175	4.0 - 9.0% of mass 174	5.7 (7.3)1
176	93.0 - 101.0% of mass 174	74.8 (95.8)1
177	5.0 - 9.0% of mass 176	5.3 (7.1)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	CC0425	0500425	04/25/11	0957
02	LCS0425	LCS0425	LCS0425	04/25/11	1027
03	LCS0425	LCS0425	LCS0425A	04/25/11	1102
04	MB0425	MB0425	MB0425	04/25/11	1130
05	LL-SB1-2-4-04191	SS71S	SS71S2	04/25/11	1209
06					
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

LAB FILE ID: RF1: 0010309

RF2: 0020309

RF5: 0050309

RF10: 0100309

RF50: 0500309

COMPOUND	RF1	RF2	RF5	RF10	RF50
Chloromethane	1.171	1.006	0.919	0.820	0.825
Vinyl Chloride	1.353	1.373	1.210	1.054	1.151
Bromomethane	0.419	0.390	0.301	0.332	0.362
Chloroethane	0.774	0.674	0.933	0.869	0.688
Trichlorofluoromethane	1.030	1.046	1.050	1.026	0.985
Acrolein		0.173	0.167	0.160	0.157
1,1,1-Trichloroethane	0.771	0.872	0.872	0.821	0.779
Acetone	0.280	0.281	0.260	0.232	0.216
1,1-Dichloroethene	0.490	0.586	0.580	0.586	0.542
Bromoethane	0.415	0.436	0.462	0.432	0.450
Iodomethane	0.569	0.565	0.565	0.448	0.575
Methylene Chloride		0.712	0.704	0.682	0.655
Acrylonitrile		0.253	0.271	0.271	0.257
Carbon Disulfide	2.206	2.256	2.206	2.102	2.119
Trans-1,2-Dichloroethene	0.592	0.693	0.653	0.649	0.620
Vinyl Acetate	1.094	1.321	1.254	1.245	1.249
1,1-Dichloroethane	1.117	1.174	1.204	1.163	1.174
2-Butanone	0.275	0.354	0.362	0.351	0.341
2,2-Dichloropropane	0.731	0.772	0.764	0.759	0.786
Cis-1,2-Dichloroethene	0.596	0.714	0.697	0.708	0.672
Chloroform	1.008	1.149	1.099	1.100	1.075
Bromochloromethane	0.294	0.370	0.370	0.354	0.360
1,1,1-Trichloroethane	0.753	0.830	0.819	0.837	0.850
1,1-Dichloropropene	0.512	0.562	0.535	0.543	0.523
Carbon Tetrachloride	0.490	0.518	0.495	0.489	0.473
1,2-Dichloroethane	0.410	0.460	0.470	0.472	0.437
Benzene	1.455	1.526	1.506	1.535	1.436
Trichloroethene	0.377	0.399	0.415	0.420	0.403
1,2-Dichloropropane	0.407	0.440	0.441	0.460	0.438
Bromodichloromethane	0.473	0.515	0.496	0.505	0.498
Dibromomethane	0.235	0.277	0.269	0.279	0.260
2-Chloroethyl Vinyl Ether			0.076	0.090	0.087
4-Methyl-2-Pentanone	0.117	0.168	0.167	0.179	0.168
Cis 1,3-dichloropropene	0.522	0.547	0.562	0.582	0.599
Toluene	0.839	0.924	0.881	0.924	0.883
Trans 1,3-Dichloropropene	0.434	0.471	0.467	0.489	0.500
2-Hexanone	0.265	0.406	0.402	0.414	0.382

FORM VI VOA

SS71 . 00058

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

LAB FILE ID: RF1: 0010309

RF2: 0020309

RF5: 0050309

RF10: 0100309

RF50: 0500309

COMPOUND	RF1	RF2	RF5	RF10	RF50
1,1,2-Trichloroethane	0.277	0.355	0.343	0.345	0.324
1,3-Dichloropropane	0.551	0.670	0.668	0.641	0.650
Tetrachloroethene	0.456	0.473	0.456	0.447	0.447
Chlorodibromomethane	0.450	0.477	0.439	0.432	0.453
1,2-Dibromoethane	0.318	0.394	0.380	0.392	0.383
Chlorobenzene	1.006	1.131	1.065	1.048	1.023
Ethyl Benzene	1.602	1.809	1.710	1.697	1.677
1,1,1,2-Tetrachloroethane	0.376	0.405	0.380	0.377	0.372
m,p-xylene	0.637	0.684	0.664	0.659	0.651
o-Xylene	0.606	0.680	0.649	0.659	0.665
Styrene	0.988	1.142	1.097	1.093	1.062
Bromoform	0.500	0.610	0.586	0.574	0.588
1,1,2,2-Tetrachloroethane	0.998	1.109	1.027	1.034	1.009
1,2,3-Trichloropropane		0.238	0.256	0.254	0.242
Trans-1,4-Dichloro 2-Butene		0.278	0.274	0.262	0.260
N-Propyl Benzene	3.606	3.691	3.592	3.524	3.566
Bromobenzene	0.878	0.931	0.899	0.906	0.883
Isopropyl Benzene	3.047	3.236	3.096	3.061	3.136
2-Chloro Toluene	2.381	2.436	2.427	2.386	2.202
4-Chloro Toluene	2.467	2.711	2.397	2.399	2.401
T-Butyl Benzene	2.260	2.402	2.236	2.251	2.252
1,3,5-Trimethyl Benzene	2.424	2.456	2.348	2.368	2.441
1,2,4-Trimethylbenzene	2.405	2.474	2.437	2.415	2.430
S-Butyl Benzene	3.313	3.425	3.319	3.352	3.347
4-Isopropyl Toluene	2.495	2.581	2.498	2.517	2.570
1,3-Dichlorobenzene	1.631	1.700	1.578	1.576	1.557
1,4-Dichlorobenzene	1.698	1.711	1.588	1.551	1.524
N-Butyl Benzene	2.559	2.526	2.445	2.505	2.558
1,2-Dichlorobenzene	1.532	1.626	1.517	1.508	1.448
1,2-Dibromo 3-Chloropropane		0.210	0.197	0.194	0.176
1,2,4-Trichlorobenzene	1.019	1.143	1.088	1.084	1.064
Hexachloro 1,3-Butadiene	0.630	0.686	0.616	0.654	0.580
Naphthalene		2.735	2.619	2.683	2.416
1,2,3-Trichlorobenzene		1.211	1.122	1.140	1.022
Dichlorodifluoromethane	0.535	0.476	0.528	0.491	0.544
Methyl tert-Butyl Ether	2.401	3.027	3.020	2.966	2.890

FORM VI VOA

5571 : 00059

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

LAB FILE ID: RF1: 0010309

RF2: 0020309

RF5: 0050309

RF10: 0100309

RF50: 0500309

COMPOUND	RF1	RF2	RF5	RF10	RF50
d4-1,2-Dichloroethane	0.508	0.570	0.587	0.596	0.567
d8-Toluene	1.113	1.120	1.120	1.149	1.121
4-Bromofluorobenzene	0.492	0.518	0.519	0.529	0.518
d4-1,2-Dichlorobenzene	0.871	0.883	0.880	0.885	0.900
Dibromofluoromethane	0.569	0.607	0.621	0.604	0.604

FORM VI VOA

5571 : 00060

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

LAB FILE ID: RF100: 1000309

RF150: 1500309

RF200: 2000309

COMPOUND	RF100	RF150	RF200
Chloromethane	0.799	0.834	0.700
Vinyl Chloride	0.970	0.914	0.781
Bromomethane	0.428	0.451	0.370
Chloroethane	0.671	0.668	0.588
Trichlorofluoromethane	0.959	0.994	0.891
Acrolein	0.149	0.147	0.125
1,1,2-Trichloro-2,2-Trifluoroethane	0.752	0.780	0.707
Acetone	0.200	0.194	0.161
1,1-Dichloroethene	0.546	0.570	0.522
Bromoethane	0.438	0.440	0.401
Iodomethane	0.521	0.486	0.403
Methylene Chloride	0.639	0.648	0.582
Acrylonitrile	0.250	0.255	0.223
Carbon Disulfide	2.062	2.044	1.726
Trans-1,2-Dichloroethene	0.629	0.658	0.602
Vinyl Acetate	1.270	1.340	1.138
1,1-Dichloroethane	1.147	1.195	1.087
2-Butanone	0.333	0.334	0.284
2,2-Dichloropropane	0.793	0.826	0.738
Cis-1,2-Dichloroethene	0.676	0.704	0.638
Chloroform	1.082	1.092	1.011
Bromochloromethane	0.359	0.374	0.347
1,1,1-Trichloroethane	0.857	0.881	0.807
1,1-Dichloropropene	0.547	0.583	0.501
Carbon Tetrachloride	0.488	0.517	0.448
1,2-Dichloroethane	0.448	0.460	0.396
Benzene	1.422	1.327	1.035
Trichloroethene	0.427	0.456	0.400
1,2-Dichloropropane	0.455	0.476	0.414
Bromodichloromethane	0.514	0.536	0.464
Dibromomethane	0.264	0.272	0.238
2-Chloroethyl Vinyl Ether	0.100	0.116	0.101
4-Methyl-2-Pentanone	0.172	0.174	0.137
Cis 1,3-dichloropropene	0.638	0.678	0.581
Toluene	0.930	0.974	0.814
Trans 1,3-Dichloropropene	0.542	0.578	0.502
2-Hexanone	0.320	0.280	

FORM VI VOA

SS71 . 00051

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

LAB FILE ID: RF100: 1000309

RF150: 1500309

RF200: 2000309

COMPOUND	RF100	RF150	RF200
1,1,2-Trichloroethane	0.341	0.355	0.312
1,3-Dichloropropane	0.646	0.706	0.556
Tetrachloroethene	0.458	0.521	0.433
Chlorodibromomethane	0.461	0.508	0.409
1,2-Dibromoethane	0.404	0.428	0.374
Chlorobenzene	1.038	1.114	0.846
Ethyl Benzene	1.623	1.504	1.077
1,1,1,2-Tetrachloroethane	0.383	0.425	0.354
m,p-xylene	0.668	0.682	0.509
o-Xylene	0.687	0.770	0.639
Styrene	1.106	1.168	0.891
Bromoform	0.616	0.703	0.551
1,1,2,2-Tetrachloroethane	1.006	1.087	0.831
1,2,3-Trichloropropane	0.244	0.268	0.208
Trans-1,4-Dichloro 2-Butene	0.265	0.289	0.217
N-Propyl Benzene	3.293	3.066	2.111
Bromobenzene	0.928	1.067	0.878
Isopropyl Benzene	3.068	3.034	2.101
2-Chloro Toluene	2.301	2.397	1.757
4-Chloro Toluene	2.349	2.433	1.714
T-Butyl Benzene	2.349	2.550	1.893
1,3,5-Trimethyl Benzene	2.508	2.553	1.857
1,2,4-Trimethylbenzene	2.472	2.572	1.823
S-Butyl Benzene	3.260	3.130	2.220
4-Isopropyl Toluene	2.632	2.659	1.929
1,3-Dichlorobenzene	1.611	1.835	1.444
1,4-Dichlorobenzene	1.591	1.813	1.396
N-Butyl Benzene	2.621	2.580	1.815
1,2-Dichlorobenzene	1.498	1.677	1.314
1,2-Dibromo 3-Chloropropane	0.173	0.183	0.135
1,2,4-Trichlorobenzene	1.078	1.208	0.963
Hexachloro 1,3-Butadiene	0.594	0.665	0.543
Naphthalene	2.319	2.306	1.606
1,2,3-Trichlorobenzene	1.010	1.103	0.852
Dichlorodifluoromethane	0.512	0.517	0.453
Methyl tert-Butyl Ether	2.803	2.556	2.055

FORM VI VOA

SS71 : 00062

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

LAB FILE ID: RF100: 1000309 RF150: 1500309 RF200: 2000309

COMPOUND	RF100	RF150	RF200
d4-1,2-Dichloroethane	0.531	0.476	0.569
d8-Toluene	1.142	1.135	1.142
4-Bromofluorobenzene	0.517	0.501	0.512
d4-1,2-Dichlorobenzene	0.901	0.883	0.899
Dibromofluoromethane	0.591	0.548	0.611

FORM VI VOA

SS71 : 00053

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
Chloromethane	AVRG	0.884	16.6
Vinyl Chloride	AVRG	1.101	19.1
Bromomethane	AVRG	0.382	13.2
Chloroethane	AVRG	0.733	15.9
Trichlorofluoromethane	AVRG	0.998	5.3
Acrolein	AVRG	0.154	10.2
1,1,2-Trichloro-2,2-Trifluoroethane	AVRG	0.794	7.2
Acetone	AVRG	0.228	19.0
1,1-Dichloroethene	AVRG	0.553	6.2
Bromoethane	AVRG	0.434	4.4
Iodomethane	AVRG	0.516	12.5
Methylene Chloride	AVRG	0.660	6.7
Acrylonitrile	AVRG	0.254	6.3
Carbon Disulfide	AVRG	2.090	7.9
Trans-1,2-Dichloroethene	AVRG	0.637	5.2
Vinyl Acetate	AVRG	1.239	6.8
1,1-Dichloroethane	AVRG	1.158	3.4
2-Butanone	AVRG	0.329	9.8
2,2-Dichloropropane	AVRG	0.771	4.0
Cis-1,2-Dichloroethene	AVRG	0.676	6.0
Chloroform	AVRG	1.077	4.4
Bromochloromethane	AVRG	0.354	7.2
1,1,1-Trichloroethane	AVRG	0.829	4.6
1,1-Dichloropropene	AVRG	0.538	5.0
Carbon Tetrachloride	AVRG	0.490	4.6
1,2-Dichloroethane	AVRG	0.444	6.3
Benzene	AVRG	1.405	11.7
Trichloroethene	AVRG	0.412	5.7
1,2-Dichloropropane	AVRG	0.441	5.2
Bromodichloromethane	AVRG	0.500	4.7
Dibromomethane	AVRG	0.262	6.4
2-Chloroethyl Vinyl Ether	AVRG	0.095	14.6
4-Methyl-2-Pentanone	AVRG	0.160	13.4
Cis 1,3-dichloropropene	AVRG	0.589	8.5
Toluene	AVRG	0.896	5.8
Trans 1,3-Dichloropropene	AVRG	0.498	9.0
2-Hexanone	AVRG	0.353	17.9

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
1,1,2-Trichloroethane	AVRG	0.332	8.0
1,3-Dichloropropane	AVRG	0.636	8.6
Tetrachloroethene	AVRG	0.461	5.8
Chlorodibromomethane	AVRG	0.454	6.6
1,2-Dibromoethane	AVRG	0.384	8.2
Chlorobenzene	AVRG	1.034	8.4
Ethyl Benzene	AVRG	1.587	14.1
1,1,1,2-Tetrachloroethane	AVRG	0.384	5.6
m,p-xylene	AVRG	0.644	8.8
o-Xylene	AVRG	0.669	7.2
Styrene	AVRG	1.068	8.4
Bromoform	AVRG	0.591	9.8
1,1,2,2-Tetrachloroethane	AVRG	1.013	8.3
1,2,3-Trichloropropane	AVRG	0.244	7.7
Trans-1,4-Dichloro 2-Butene	AVRG	0.264	8.7
N-Propyl Benzene	AVRG	3.306	15.8
Bromobenzene	AVRG	0.921	6.8
Isopropyl Benzene	AVRG	2.972	12.0
2-Chloro Toluene	AVRG	2.286	9.9
4-Chloro Toluene	AVRG	2.359	12.0
T-Butyl Benzene	AVRG	2.274	8.2
1,3,5-Trimethyl Benzene	AVRG	2.370	9.2
1,2,4-Trimethylbenzene	AVRG	2.378	9.7
S-Butyl Benzene	AVRG	3.171	12.4
4-Isopropyl Toluene	AVRG	2.485	9.4
1,3-Dichlorobenzene	AVRG	1.616	7.1
1,4-Dichlorobenzene	AVRG	1.609	8.0
N-Butyl Benzene	AVRG	2.451	10.7
1,2-Dichlorobenzene	AVRG	1.515	7.2
1,2-Dibromo 3-Chloropropane	AVRG	0.181	13.4
1,2,4-Trichlorobenzene	AVRG	1.081	6.8
Hexachloro 1,3-Butadiene	AVRG	0.621	7.6
Naphthalene	AVRG	2.383	16.1
1,2,3-Trichlorobenzene	AVRG	1.066	11.0
Dichlorodifluoromethane	AVRG	0.507	6.2
Methyl tert-Butyl Ether	AVRG	2.715	12.8

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Calibration Date: 03/09/11

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R ²
d4-1,2-Dichloroethane	AVRG	0.550	7.6
d8-Toluene	AVRG	1.130	1.2
4-Bromofluorobenzene	AVRG	0.513	2.3
d4-1,2-Dichlorobenzene	AVRG	0.888	1.2
Dibromofluoromethane	AVRG	0.594	4.1

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Cont. Calib. Date: 04/22/11

Init. Calib. Date: 03/09/11

Cont. Calib. Time: 0914

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Chloromethane	0.884	0.968	0.100	AVRG	9.5
Vinyl Chloride	1.101	1.252	0.010	AVRG	13.7
Bromomethane	0.382	0.460	0.010	AVRG	20.4 <-
Chloroethane	0.733	0.811	0.010	AVRG	10.6
Trichlorofluoromethane	0.998	1.216	0.010	AVRG	21.8 <-
Acrolein	0.154	0.167	0.010	AVRG	8.4
1,1,2-Trichloro-2,2,2-Trifluoroethane	0.794	0.948	0.010	AVRG	19.4
Acetone	0.228	0.237	0.010	AVRG	3.9
1,1-Dichloroethene	0.553	0.593	0.010	AVRG	7.2
Bromoethane	0.434	0.489	0.010	AVRG	12.7
Iodomethane	0.516	0.634	0.010	AVRG	22.9 <-
Methylene Chloride	0.660	0.677	0.010	AVRG	2.6
Acrylonitrile	0.254	0.230	0.010	AVRG	-9.4
Carbon Disulfide	2.090	2.249	0.010	AVRG	7.6
Trans-1,2-Dichloroethene	0.637	0.678	0.010	AVRG	6.4
Vinyl Acetate	1.239	1.280	0.010	AVRG	3.3
1,1-Dichloroethane	1.158	1.199	0.100	AVRG	3.5
2-Butanone	0.329	0.320	0.010	AVRG	-2.7
2,2-Dichloropropane	0.771	0.864	0.010	AVRG	12.1
Cis-1,2-Dichloroethene	0.676	0.714	0.010	AVRG	5.6
Chloroform	1.077	1.155	0.010	AVRG	7.2
Bromochloromethane	0.354	0.375	0.010	AVRG	5.9
1,1,1-Trichloroethane	0.829	0.920	0.010	AVRG	11.0
1,1-Dichloropropene	0.538	0.524	0.010	AVRG	-2.6
Carbon Tetrachloride	0.490	0.548	0.010	AVRG	11.8
1,2-Dichloroethane	0.444	0.430	0.010	AVRG	-3.2
Benzene	1.405	1.423	0.010	AVRG	1.3
Trichloroethene	0.412	0.423	0.010	AVRG	2.7
1,2-Dichloropropane	0.441	0.411	0.010	AVRG	-6.8
Bromodichloromethane	0.500	0.503	0.010	AVRG	0.6
Dibromomethane	0.262	0.256	0.010	AVRG	-2.3
2-Chloroethyl Vinyl Ether	0.095	0.126	0.010	AVRG	32.6 <-
4-Methyl-2-Pentanone	0.160	0.150	0.010	AVRG	-6.2
Cis 1,3-dichloropropene	0.589	0.582	0.010	AVRG	-1.2
Toluene	0.896	0.923	0.010	AVRG	3.0
Trans 1,3-Dichloropropene	0.498	0.516	0.010	AVRG	3.6
2-Hexanone	0.353	0.303	0.010	AVRG	-14.2

<- Exceeds QC limit of 20% D
* RF less than minimum RF

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Cont. Calib. Date: 04/22/11

Init. Calib. Date: 03/09/11

Cont. Calib. Time: 0914

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
1,1,2-Trichloroethane	0.332	0.341	0.010	AVRG	2.7
1,3-Dichloropropane	0.636	0.618	0.010	AVRG	-2.8
Tetrachloroethene	0.461	0.490	0.010	AVRG	6.3
Chlorodibromomethane	0.454	0.459	0.010	AVRG	1.1
1,2-Dibromoethane	0.384	0.396	0.010	AVRG	3.1
Chlorobenzene	1.034	1.045	0.300	AVRG	1.1
Ethyl Benzene	1.587	1.660	0.010	AVRG	4.6
1,1,1,2-Tetrachloroethane	0.384	0.386	0.010	AVRG	0.5
m,p-xylene	0.644	0.664	0.010	AVRG	3.1
o-Xylene	0.669	0.665	0.010	AVRG	-0.6
Styrene	1.068	1.080	0.010	AVRG	1.1
Bromoform	0.591	0.595	0.100	AVRG	0.7
1,1,2,2-Tetrachloroethane	1.013	0.957	0.300	AVRG	-5.5
1,2,3-Trichloropropane	0.244	0.244	0.010	AVRG	0.0
Trans-1,4-Dichloro 2-Butene	0.264	0.255	0.010	AVRG	-3.4
N-Propyl Benzene	3.306	3.767	0.010	AVRG	13.9
Bromobenzene	0.921	0.951	0.010	AVRG	3.2
Isopropyl Benzene	2.972	3.296	0.010	AVRG	10.9
2-Chloro Toluene	2.286	2.424	0.010	AVRG	6.0
4-Chloro Toluene	2.359	2.434	0.010	AVRG	3.2
T-Butyl Benzene	2.274	2.423	0.010	AVRG	6.6
1,3,5-Trimethyl Benzene	2.369	2.569	0.010	AVRG	8.4
1,2,4-Trimethylbenzene	2.378	2.572	0.010	AVRG	8.2
S-Butyl Benzene	3.171	3.589	0.010	AVRG	13.2
4-Isopropyl Toluene	2.485	2.800	0.010	AVRG	12.7
1,3-Dichlorobenzene	1.616	1.753	0.010	AVRG	8.5
1,4-Dichlorobenzene	1.609	1.723	0.010	AVRG	7.1
N-Butyl Benzene	2.451	2.778	0.010	AVRG	13.3
1,2-Dichlorobenzene	1.515	1.566	0.010	AVRG	3.4
1,2-Dibromo 3-Chloropropane	0.181	0.152	0.010	AVRG	-16.0
1,2,4-Trichlorobenzene	1.081	1.048	0.010	AVRG	-3.0
Hexachloro 1,3-Butadiene	0.621	0.568	0.010	AVRG	-8.5
Naphthalene	2.383	2.022	0.010	AVRG	-15.1
1,2,3-Trichlorobenzene	1.066	0.936	0.010	AVRG	-12.2
Dichlorodifluoromethane	0.507	0.569	0.010	AVRG	12.2
Methyl tert-Butyl Ether	2.715	1.412	0.010	AVRG	-48.0
=====	=====	=====	=====	=====	=====

<-

<- Exceeds QC limit of 20% D
* RF less than minimum RF

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Cont. Calib. Date: 04/22/11

Init. Calib. Date: 03/09/11

Cont. Calib. Time: 0914

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
d4-1,2-Dichloroethane	0.550	0.610	0.010	AVRG	10.9
d8-Toluene	1.130	1.134	0.010	AVRG	0.4
4-Bromofluorobenzene	0.513	0.483	0.010	AVRG	-5.8
d4-1,2-Dichlorobenzene	0.888	0.913	0.010	AVRG	2.8
Dibromofluoromethane	0.594	0.658	0.010	AVRG	10.8

<- Exceeds QC limit of 20% D

* RF less than minimum RF

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Cont. Calib. Date: 04/25/11

Init. Calib. Date: 03/09/11

Cont. Calib. Time: 0957

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Chloromethane	0.884	0.931	0.100	AVRG	5.3
Vinyl Chloride	1.101	1.050	0.010	AVRG	-4.6
Bromomethane	0.382	0.477	0.010	AVRG	24.9 <-
Chloroethane	0.733	0.737	0.010	AVRG	0.5
Trichlorofluoromethane	0.998	1.100	0.010	AVRG	10.2
Acrolein	0.154	0.179	0.010	AVRG	16.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.794	0.866	0.010	AVRG	9.1
Acetone	0.228	0.234	0.010	AVRG	2.6
1,1-Dichloroethene	0.553	0.563	0.010	AVRG	1.8
Bromoethane	0.434	0.480	0.010	AVRG	10.6
Iodomethane	0.516	0.642	0.010	AVRG	24.4 <-
Methylene Chloride	0.660	0.662	0.010	AVRG	0.3
Acrylonitrile	0.254	0.248	0.010	AVRG	-2.4
Carbon Disulfide	2.090	2.144	0.010	AVRG	2.6
Trans-1,2-Dichloroethene	0.637	0.631	0.010	AVRG	-0.9
Vinyl Acetate	1.239	1.237	0.010	AVRG	-0.2
1,1-Dichloroethane	1.158	1.121	0.100	AVRG	-3.2
2-Butanone	0.329	0.344	0.010	AVRG	4.6
2,2-Dichloropropane	0.771	0.828	0.010	AVRG	7.4
Cis-1,2-Dichloroethene	0.676	0.676	0.010	AVRG	0.0
Chloroform	1.077	1.092	0.010	AVRG	1.4
Bromochloromethane	0.354	0.370	0.010	AVRG	4.5
1,1,1-Trichloroethane	0.829	0.895	0.010	AVRG	8.0
1,1-Dichloropropene	0.538	0.502	0.010	AVRG	-6.7
Carbon Tetrachloride	0.490	0.528	0.010	AVRG	7.8
1,2-Dichloroethane	0.444	0.446	0.010	AVRG	0.4
Benzene	1.405	1.404	0.010	AVRG	-0.1
Trichloroethene	0.412	0.416	0.010	AVRG	1.0
1,2-Dichloropropane	0.441	0.411	0.010	AVRG	-6.8
Bromodichloromethane	0.500	0.499	0.010	AVRG	-0.2
Dibromomethane	0.262	0.261	0.010	AVRG	-0.4
2-Chloroethyl Vinyl Ether	0.095	0.136	0.010	AVRG	43.2 <-
4-Methyl-2-Pentanone	0.160	0.167	0.010	AVRG	4.4
Cis 1,3-dichloropropene	0.589	0.600	0.010	AVRG	1.9
Toluene	0.896	0.911	0.010	AVRG	1.7
Trans 1,3-Dichloropropene	0.498	0.521	0.010	AVRG	4.6
2-Hexanone	0.353	0.345	0.010	AVRG	-2.3

<- Exceeds QC limit of 20% D
* RF less than minimum RF

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Cont. Calib. Date: 04/25/11

Init. Calib. Date: 03/09/11

Cont. Calib. Time: 0957

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
1,1,2-Trichloroethane	0.332	0.355	0.010	AVRG	6.9
1,3-Dichloropropane	0.636	0.627	0.010	AVRG	-1.4
Tetrachloroethene	0.461	0.456	0.010	AVRG	-1.1
Chlorodibromomethane	0.454	0.468	0.010	AVRG	3.1
1,2-Dibromoethane	0.384	0.412	0.010	AVRG	7.3
Chlorobenzene	1.034	1.058	0.300	AVRG	2.3
Ethyl Benzene	1.587	1.647	0.010	AVRG	3.8
1,1,1,2-Tetrachloroethane	0.384	0.390	0.010	AVRG	1.6
m,p-xylene	0.644	0.665	0.010	AVRG	3.3
o-Xylene	0.669	0.673	0.010	AVRG	0.6
Styrene	1.068	1.109	0.010	AVRG	3.8
Bromoform	0.591	0.599	0.100	AVRG	1.4
1,1,2,2-Tetrachloroethane	1.013	0.998	0.300	AVRG	-1.5
1,2,3-Trichloropropane	0.244	0.259	0.010	AVRG	6.1
Trans-1,4-Dichloro 2-Butene	0.264	0.257	0.010	AVRG	-2.6
N-Propyl Benzene	3.306	3.574	0.010	AVRG	8.1
Bromobenzene	0.921	0.910	0.010	AVRG	-1.2
Isopropyl Benzene	2.972	3.071	0.010	AVRG	3.3
2-Chloro Toluene	2.286	2.208	0.010	AVRG	-3.4
4-Chloro Toluene	2.359	2.470	0.010	AVRG	4.7
T-Butyl Benzene	2.274	2.258	0.010	AVRG	-0.7
1,3,5-Trimethyl Benzene	2.369	2.456	0.010	AVRG	3.7
1,2,4-Trimethylbenzene	2.378	2.497	0.010	AVRG	5.0
S-Butyl Benzene	3.171	3.391	0.010	AVRG	6.9
4-Isopropyl Toluene	2.485	2.702	0.010	AVRG	8.7
1,3-Dichlorobenzene	1.616	1.711	0.010	AVRG	5.9
1,4-Dichlorobenzene	1.609	1.687	0.010	AVRG	4.8
N-Butyl Benzene	2.451	2.692	0.010	AVRG	9.8
1,2-Dichlorobenzene	1.515	1.572	0.010	AVRG	3.8
1,2-Dibromo 3-Chloropropane	0.181	0.171	0.010	AVRG	-5.5
1,2,4-Trichlorobenzene	1.081	1.106	0.010	AVRG	2.3
Hexachloro 1,3-Butadiene	0.621	0.584	0.010	AVRG	-6.0
Naphthalene	2.383	2.318	0.010	AVRG	-2.7
1,2,3-Trichlorobenzene	1.066	1.016	0.010	AVRG	-4.7
Dichlorodifluoromethane	0.507	0.506	0.010	AVRG	-0.2
Methyl tert-Butyl Ether	2.715	1.937	0.010	AVRG	-28.6 <-
=====	=====	=====	=====	=====	=====

<- Exceeds QC limit of 20% D
* RF less than minimum RF

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Instrument ID: FINN5

Cont. Calib. Date: 04/25/11

Init. Calib. Date: 03/09/11

Cont. Calib. Time: 0957

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
d4-1,2-Dichloroethane	0.550	0.542	0.010	AVRG	-1.4
d8-Toluene	1.130	1.131	0.010	AVRG	0.1
4-Bromofluorobenzene	0.513	0.491	0.010	AVRG	-4.3
d4-1,2-Dichlorobenzene	0.888	0.906	0.010	AVRG	2.0
Dibromofluoromethane	0.594	0.602	0.010	AVRG	1.3

<- Exceeds QC limit of 20% D
* RF less than minimum RF

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Ical Midpoint ID: 0500309

Ical Date: 03/09/11

Instrument ID: FINN5

Project Run Date: 04/22/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
ICAL MIDPT	91022	6.44	153104	7.45	143720	10.59
UPPER LIMIT	182044	6.94	306208	7.95	287440	11.09
LOWER LIMIT	45511	5.94	76552	6.95	71860	10.09
Sample ID						
01 LCS0422	107838	6.42	185350	7.43	183246	10.57
02 LCS0422	100760	6.44	167187	7.45	171142	10.59
03 MB0422	90850	6.44	155096	7.45	153196	10.59
04 LL-SB6-0-0.5	86261	6.43	149823	7.44	142897	10.57
05 LL-SB6-1.5-2	83858	6.43	147295	7.44	141233	10.58
06 LL-SB6-2-4-0	87023	6.42	148928	7.43	140618	10.57
07 LL-SB5-0-0.5	81953	6.43	145207	7.44	119385	10.57
08 LL-SB5-1.5-2	85881	6.42	145136	7.43	134133	10.57
09 LL-SB5-2-4-0	80473	6.44	134243	7.45	119654	10.58
10 LL-SB4-0-0.5	77805	6.44	131766	7.45	114960	10.59
11 LL-SB4-1.5-2	70789	6.44	123295	7.45	122331	10.58
12 LL-SB4-2-4-0	73412	6.44	124478	7.45	124105	10.59
13 LL-SB3-0-0.5	71702	6.42	127747	7.43	122755	10.57
14 LL-SB3-1.5-2	81802	6.42	143245	7.43	143054	10.57
15 LL-SB3-2-4-0	72050	6.45	126124	7.45	126931	10.59
16 LL-SB2-0-0.5	83444	6.42	141982	7.43	136717	10.57
17 LL-SB2-1.5-2	82308	6.43	135942	7.44	141914	10.58
18 LL-SB2-2-3.5	68989	6.42	122009	7.43	123522	10.57
19 LL-SB1-0-0.5	71707	6.44	126585	7.45	134430	10.59
20 LL-SB1-0-0.5	63890	6.44	111794	7.45	119501	10.58
21 LL-SB4-2-4-0	73313	6.45	127769	7.46	127610	10.59
22 LL-SB4-2-4-0	71094	6.44	116178	7.45	117510	10.59

IS1 (PFB) = Pentafluorobenzene
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SS71
Ical Midpoint ID: 0500309
Instrument ID: FINN5

Client: FLOYD SNIDER
Project: LORA LAKE SURFACE SEDIMENT
Ical Date: 03/09/11
Project Run Date: 04/22/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	91022	6.44	153104	7.45	143720	10.59
UPPER LIMIT	182044	6.94	306208	7.95	287440	11.09
LOWER LIMIT	45511	5.94	76552	6.95	71860	10.09
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LL-SB1-1.5-2	64567	6.43	105391	7.44	108918	10.58
02						
03						
04						
05						
06						
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21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Ical Midpoint ID: 0500309

Ical Date: 03/09/11

Instrument ID: FINN5

Project Run Date: 04/22/11

	IS4 (DCB)					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	77398	13.28				
UPPER LIMIT	154796	13.78				
LOWER LIMIT	38699	12.78				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0422	100177	13.26				
02 LCS0422	93667	13.27				
03 MB0422	78794	13.27				
04 LL-SB6-0-0.5	52208	13.26				
05 LL-SB6-1.5-2	57567	13.27				
06 LL-SB6-2-4-0	60146	13.26				
07 LL-SB5-0-0.5	34483*	13.26				
08 LL-SB5-1.5-2	48937	13.26				
09 LL-SB5-2-4-0	38378*	13.27				
10 LL-SB4-0-0.5	36667*	13.28				
11 LL-SB4-1.5-2	61262	13.27				
12 LL-SB4-2-4-0	64558	13.27				
13 LL-SB3-0-0.5	46823	13.26				
14 LL-SB3-1.5-2	70361	13.25				
15 LL-SB3-2-4-0	59188	13.28				
16 LL-SB2-0-0.5	50156	13.25				
17 LL-SB2-1.5-2	71850	13.26				
18 LL-SB2-2-3.5	60884	13.26				
19 LL-SB1-0-0.5	65466	13.28				
20 LL-SB1-0-0.5	59097	13.27				
21 LL-SB4-2-4-0	72536	13.28				
22 LL-SB4-2-4-0	66020	13.27				

IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Ical Midpoint ID: 0500309

Ical Date: 03/09/11

Instrument ID: FINN5

Project Run Date: 04/22/11

	IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	77398	13.28				
UPPER LIMIT	154796	13.78				
LOWER LIMIT	38699	12.78				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LL-SB1-1.5-2	53250	13.26				
02						
03						
04						
05						
06						
07						
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22						

IS4 (DCB) = d4-1,4-Dichlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SS71
Ical Midpoint ID: 0500309
Instrument ID: FINN5

Client: FLOYD SNIDER
Project: LORA LAKE SURFACE SEDIMENT
Ical Date: 03/09/11
Project Run Date: 04/25/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CLB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	91022	6.44	153104	7.45	143720	10.59
UPPER LIMIT	182044	6.94	306208	7.95	287440	11.09
LOWER LIMIT	45511	5.94	76552	6.95	71860	10.09
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0425	100349	6.45	170673	7.46	167927	10.60
02 LCS0425	101602	6.44	171568	7.45	166981	10.58
03 MB0425	89854	6.45	156411	7.46	148791	10.60
04 LL-SB1-2-4-0	90288	6.45	155792	7.46	148031	10.60
05						
06						
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21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE SURFACE SEDIMENT

Ical Midpoint ID: 0500309

Ical Date: 03/09/11

Instrument ID: FINN5

Project Run Date: 04/25/11

	IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	77398	13.28				
UPPER LIMIT	154796	13.78				
LOWER LIMIT	38699	12.78				
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0425	92454	13.29				
02 LCS0425	92006	13.27				
03 MB0425	77028	13.28				
04 LL-SB1-2-4-0	63211	13.29				
05						
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20						
21						
22						

IS4 (DCB) = d4-1,4-Dichlorobenzene


AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Ical midpoint
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

**SIM PAH Analysis
Report and Summary QC Forms**

ARI Job ID: SS71

Sample ID: LL-SB6-0-0.5-041811
SAMPLE

Lab Sample ID: SS71A
LIMS ID: 11-8654
Matrix: Soil
Data Release Authorized: 
Reported: 05/03/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Date Extracted: 04/28/11
Date Analyzed: 04/30/11 01:31
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.89 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	4.6	5.9
218-01-9	Chrysene	4.6	15
50-32-8	Benzo (a) pyrene	4.6	8.9
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	8.0
53-70-3	Dibenz (a,h) anthracene	4.6	< 4.6 U
TOTBFA	Total Benzofluoranthenes	4.6	23

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.0%
d14-Dibenzo(a,h)anthracen 57.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: LL-SB6-1.5-2-041811
SAMPLE

Lab Sample ID: SS71B
 LIMS ID: 11-8655
 Matrix: Soil
 Data Release Authorized: *B*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 04/30/11 01:58
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.90 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 12.2%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	< 4.6 U
218-01-9	Chrysene	4.6	< 4.6 U
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
TOTBFA	Total Benzofluoranthenes	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.7%
 d14-Dibenzo(a,h)anthracen 54.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: LL-SB6-2-4-041811
SAMPLE

Lab Sample ID: SS71C
 LIMS ID: 11-8656
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 04/30/11 02:26
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 11.12 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 11.0%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.5	< 4.5 U
218-01-9	Chrysene	4.5	4.9
50-32-8	Benzo(a)pyrene	4.5	5.3
193-39-5	Indeno(1,2,3-cd)pyrene	4.5	< 4.5 U
53-70-3	Dibenz(a,h)anthracene	4.5	< 4.5 U
TOTBFA	Total Benzofluoranthenes	4.5	< 4.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 67.7%
 d14-Dibenzo(a,h)anthracen 60.0%

ORGANICS ANALYSIS DATA SHEET
PNA's by SIM SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: LL-SB5-0-0.5-041811
SAMPLE

Lab Sample ID: SS71D
 LIMS ID: 11-8657
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 04/30/11 02:53
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 11.09 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 28.7%

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	4.5	12
218-01-9	Chrysene	4.5	37
50-32-8	Benzo (a) pyrene	4.5	17
193-39-5	Indeno (1,2,3-cd) pyrene	4.5	7.2
53-70-3	Dibenz (a,h) anthracene	4.5	< 4.5 U
TOTBFA	Total Benzofluoranthenes	4.5	61

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 88.0%
 d14-Dibenzo(a,h)anthracen 30.7%

Sample ID: LL-SB5-1.5-2-041811
SAMPLE

Lab Sample ID: SS71E
LIMS ID: 11-8658
Matrix: Soil
Data Release Authorized: *AB*
Reported: 05/03/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Date Extracted: 04/28/11
Date Analyzed: 04/30/11 03:21
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.69 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.8%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	Chrysene	4.7	7.6
50-32-8	Benzo(a)pyrene	4.7	5.6
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
TOTBFA	Total Benzofluoranthenes	4.7	13

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 60.3%
d14-Dibenzo(a,h)anthracen 46.3%

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Sample ID: LL-SB5-2-4-041811
SAMPLE

Lab Sample ID: SS71F
 LIMS ID: 11-8659
 Matrix: Soil
 Data Release Authorized: *B*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 12:56
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.69 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	Chrysene	4.7	6.0
50-32-8	Benzo(a)pyrene	4.7	< 4.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
TOTBFA	Total Benzofluoranthenes	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 51.3%
 d14-Dibenzo(a,h)anthracen 60.0%

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Sample ID: LL-SB4-0-0.5-041911
SAMPLE

Lab Sample ID: SS71G
 LIMS ID: 11-8660
 Matrix: Soil
 Data Release Authorized: *AS*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 13:23
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 11.05 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	4.5	9.1
218-01-9	Chrysene	4.5	18
50-32-8	Benzo (a) pyrene	4.5	12
193-39-5	Indeno (1,2,3-cd) pyrene	4.5	7.9
53-70-3	Dibenz (a,h) anthracene	4.5	< 4.5 U
TOTBFA	Total Benzofluoranthenes	4.5	29

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 58.3%
 d14-Dibenzo (a,h) anthracen 65.0%

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Sample ID: LL-SB4-1.5-2-041911
SAMPLE

Lab Sample ID: SS71H
 LIMS ID: 11-8661
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 14:19
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.90 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 11.4%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	< 4.6 U
218-01-9	Chrysene	4.6	< 4.6 U
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
TOTBFA	Total Benzofluoranthenes	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 55.0%
 d14-Dibenzo(a,h)anthracen 83.0%

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Sample ID: LL-SB4-2-4-041911
SAMPLE

Lab Sample ID: SS71I
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: *JS*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 14:50
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.87 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	< 4.6 U
218-01-9	Chrysene	4.6	< 4.6 U
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
TOTBFA	Total Benzofluoranthenes	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 52.0%
 d14-Dibenzo(a,h)anthracen 76.3%

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Sample ID: LL-SB3-0-0.5-041911
SAMPLE

Lab Sample ID: SS71J
 LIMS ID: 11-8663
 Matrix: Soil
 Data Release Authorized: *AS*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 16:13
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.92 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	4.6	7.0
218-01-9	Chrysene	4.6	12
50-32-8	Benzo (a) pyrene	4.6	8.7
193-39-5	Indeno (1,2,3-cd) pyrene	4.6	6.9
53-70-3	Dibenz (a,h) anthracene	4.6	< 4.6 U
TOTBFA	Total Benzofluoranthenes	4.6	20


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 57.7%
 d14-Dibenzo (a,h) anthracen 70.7%

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Sample ID: LL-SB3-1.5-2-041911
SAMPLE

Lab Sample ID: SS71K
 LIMS ID: 11-8664
 Matrix: Soil
 Data Release Authorized: 
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 16:41
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 11.19 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 10.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.5	< 4.5 U
218-01-9	Chrysene	4.5	< 4.5 U
50-32-8	Benzo(a)pyrene	4.5	< 4.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.5	< 4.5 U
53-70-3	Dibenz(a,h)anthracene	4.5	< 4.5 U
TOTBFA	Total Benzofluoranthenes	4.5	< 4.5 U


Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 39.7%
 d14-Dibenzo(a,h)anthracen 71.3%

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Sample ID: LL-SB3-2-4-041911
SAMPLE

Lab Sample ID: SS71L
 LIMS ID: 11-8665
 Matrix: Soil
 Data Release Authorized: 
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 17:09
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.90 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	< 4.6 U
218-01-9	Chrysene	4.6	< 4.6 U
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
TOTBFA	Total Benzofluoranthenes	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 51.3%
 d14-Dibenzo(a,h)anthracen 69.3%

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Sample ID: LL-SB2-0-0.5-041911
SAMPLE

Lab Sample ID: SS71M
 LIMS ID: 11-8666
 Matrix: Soil
 Data Release Authorized: *JB*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 17:36
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.69 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 12.8%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	Chrysene	4.7	7.9
50-32-8	Benzo(a)pyrene	4.7	< 4.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
TOTBFA	Total Benzofluoranthenes	4.7	13

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.7%
 d14-Dibenzo(a,h)anthracen 72.0%

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Sample ID: LL-SB2-1.5-2-041911
SAMPLE

Lab Sample ID: SS71N
 LIMS ID: 11-8667
 Matrix: Soil
 Data Release Authorized: *AS*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 18:04
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.26 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 8.4%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.9	< 4.9 U
218-01-9	Chrysene	4.9	< 4.9 U
50-32-8	Benzo(a)pyrene	4.9	< 4.9 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	< 4.9 U
53-70-3	Dibenz(a,h)anthracene	4.9	< 4.9 U
TOTBFA	Total Benzofluoranthenes	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.0%
 d14-Dibenzo(a,h)anthracen 73.0%

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Sample ID: LL-SB2-2-3.5-041911
SAMPLE

Lab Sample ID: SS710
 LIMS ID: 11-8668
 Matrix: Soil
 Data Release Authorized: *JB*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 18:32
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 11.10 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 10.0%

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	4.5	< 4.5 U
218-01-9	Chrysene	4.5	< 4.5 U
50-32-8	Benzo (a) pyrene	4.5	< 4.5 U
193-39-5	Indeno (1, 2, 3-cd) pyrene	4.5	< 4.5 U
53-70-3	Dibenz (a, h) anthracene	4.5	< 4.5 U
TOTBFA	Total Benzofluoranthenes	4.5	< 4.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 55.3%
 d14-Dibenzo (a, h) anthracen 74.0%

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Sample ID: LL-SB1-0-0.5-041911
SAMPLE

Lab Sample ID: SS71P
 LIMS ID: 11-8669
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 18:59
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.61 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 7.6%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	Chrysene	4.7	< 4.7 U
50-32-8	Benzo(a)pyrene	4.7	< 4.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
TOTBFA	Total Benzofluoranthenes	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 47.3%
 d14-Dibenzo(a,h)anthracen 74.7%

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Sample ID: LL-SB1-0-0.5-041911-D
SAMPLE

Lab Sample ID: SS71Q
 LIMS ID: 11-8670
 Matrix: Soil
 Data Release Authorized: *AB*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 19:27
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.63 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 7.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	Chrysene	4.7	< 4.7 U
50-32-8	Benzo(a)pyrene	4.7	< 4.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
TOTBFA	Total Benzofluoranthenes	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 51.7%
 d14-Dibenzo(a,h)anthracen 74.7%

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Sample ID: LL-SB1-1.5-2-041911
SAMPLE

Lab Sample ID: SS71R
 LIMS ID: 11-8671
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 19:55
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.22 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 8.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.9	< 4.9 U
218-01-9	Chrysene	4.9	< 4.9 U
50-32-8	Benzo(a)pyrene	4.9	< 4.9 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	< 4.9 U
53-70-3	Dibenz(a,h)anthracene	4.9	< 4.9 U
TOTBFA	Total Benzofluoranthenes	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 46.3%
 d14-Dibenzo(a,h)anthracen 67.7%

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Sample ID: LL-SB1-2-4-041911
SAMPLE

Lab Sample ID: SS71S
 LIMS ID: 11-8672
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 20:22
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.55 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 9.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	Chrysene	4.7	4.9
50-32-8	Benzo(a)pyrene	4.7	< 4.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
TOTBFA	Total Benzofluoranthenes	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 61.3%
 d14-Dibenzo(a,h)anthracen 77.3%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
LL-SB6-0-0.5-041811	60.0%	57.3%	0
LL-SB6-1.5-2-041811	60.7%	54.3%	0
LL-SB6-2-4-041811	67.7%	60.0%	0
LL-SB5-0-0.5-041811	88.0%	30.7%	0
LL-SB5-1.5-2-041811	60.3%	46.3%	0
LL-SB5-2-4-041811	51.3%	60.0%	0
LL-SB4-0-0.5-041911	58.3%	65.0%	0
LL-SB4-1.5-2-041911	55.0%	83.0%	0
MB-042811	63.0%	62.0%	0
LCS-042811	61.7%	63.0%	0
LL-SB4-2-4-041911	52.0%	76.3%	0
LL-SB4-2-4-041911 MS	59.3%	73.7%	0
LL-SB4-2-4-041911 MSD	53.3%	72.0%	0
LL-SB3-0-0.5-041911	57.7%	70.7%	0
LL-SB3-1.5-2-041911	39.7%	71.3%	0
LL-SB3-2-4-041911	51.3%	69.3%	0
LL-SB2-0-0.5-041911	53.7%	72.0%	0
LL-SB2-1.5-2-041911	53.0%	73.0%	0
LL-SB2-2-3.5-041911	55.3%	74.0%	0
LL-SB1-0-0.5-041911	47.3%	74.7%	0
LL-SB1-0-0.5-041911-D	51.7%	74.7%	0
LL-SB1-1.5-2-041911	46.3%	67.7%	0
LL-SB1-2-4-041911	61.3%	77.3%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (35-100) (34-100)
(DBA) = d14-Dibenzo(a,h)anthracene (37-120) (10-117)

Prep Method: SW3580A
Log Number Range: 11-8654 to 11-8672

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Sample ID: LL-ER-041911

SAMPLE

Lab Sample ID: SS71T

LIMS ID: 11-8673

Matrix: Water

Data Release Authorized: 

Reported: 04/29/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Extracted: 04/21/11

Date Analyzed: 04/27/11 19:15

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 66.7%
d14-Dibenzo(a,h)anthracene 76.3%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-042111	68.0%	77.7%	0
LCS-042111	68.3%	81.7%	0
LCSD-042111	67.7%	74.0%	0
LL-ER-041911	66.7%	76.3%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (36-101) (30-106)
(DBA) = d14-Dibenzo(a,h)anthracene (42-121) (10-130)

Prep Method: SW3520C
Log Number Range: 11-8673 to 11-8673

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: LL-SB4-2-4-041911
MATRIX SPIKE

Lab Sample ID: SS711
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: *[Signature]*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted MS/MSD: 04/28/11
 Date Analyzed MS: 05/02/11 15:18
 MSD: 05/02/11 15:46
 Instrument/Analyst MS: NT4/JZ
 MSD: NT4/JZ

Sample Amount MS: 10.9 g-dry-wt
 MSD: 10.9 g-dry-wt
 Final Extract Volume MS: 0.50 mL
 MSD: 0.50 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzo(a)anthracene	< 4.6 U	103	137	75.2%	102	138	73.9%	1.0%
Chrysene	< 4.6 U	102	137	74.5%	102	138	73.9%	0.0%
Benzo(a)pyrene	< 4.6 U	99.9	137	72.9%	100	138	72.5%	0.1%
Indeno(1,2,3-cd)pyrene	< 4.6 U	97.8	137	71.4%	101	138	73.2%	3.2%
Dibenz(a,h)anthracene	< 4.6 U	101	137	73.7%	103	138	74.6%	2.0%
Total Benzofluoranthenes	< 4.6 U	207	274	75.5%	211	276	76.4%	1.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PNA's by SIM SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: LL-SB4-2-4-041911
MATRIX SPIKE

Lab Sample ID: SS711
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: *MS*
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/28/11
 Date Analyzed: 05/02/11 15:18
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.93 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
TOTBFA	Total Benzofluoranthenes	4.6	---

Reported in µg/kg (ppb)


SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 59.3%
 d14-Dibenzo(a,h)anthracen 73.7%

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1



Sample ID: LL-SB4-2-4-041911
MATRIX SPIKE DUPLICATE

Lab Sample ID: SS711
LIMS ID: 11-8662
Matrix: Soil
Data Release Authorized: 
Reported: 05/03/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Date Extracted: 04/28/11
Date Analyzed: 05/02/11 15:46
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.87 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
TOTBFA	Total Benzofluoranthenes	4.6	---

Reported in $\mu\text{g}/\text{kg}$ (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.3%
d14-Dibenzo(a,h)anthracen 72.0%

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: LCS-042811

LAB CONTROL SAMPLE

Lab Sample ID: LCS-042811

LIMS ID: 11-8662

Matrix: Soil

Data Release Authorized: 

Reported: 05/03/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: NA

Date Received: NA

Date Extracted: 04/28/11

Date Analyzed LCS: 04/30/11 00:35

Instrument/Analyst LCS: NT4/JZ

Sample Amount LCS: 10.0 g-dry-wt

Final Extract Volume LCS: 0.50 mL

Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Benzo(a)anthracene	124	150	82.7%
Chrysene	126	150	84.0%
Benzo(a)pyrene	118	150	78.7%
Indeno(1,2,3-cd)pyrene	87.8	150	58.5%
Dibenz(a,h)anthracene	91.6	150	61.1%
Total Benzofluoranthenes	254	300	84.7%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	61.7%
d14-Dibenzo(a,h)anthracen	63.0%

ORGANICS ANALYSIS DATA SHEET

PNAs by SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: LCS-042111

LAB CONTROL SAMPLE

Lab Sample ID: LCS-042111
LIMS ID: 11-8673
Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 04/29/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 04/21/11

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 04/27/11 17:52

Final Extract Volume LCS: 0.50 mL

LCSD: 04/27/11 18:19

LCSD: 0.50 mL

Instrument/Analyst LCS: NT4/JZ

Dilution Factor LCS: 1.00

LCSD: NT4/JZ

LCSD: 1.00

Analyte	LCS			LCSD			RPD
	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	
Benzo (a) anthracene	2.53	3.00	84.3%	2.53	3.00	84.3%	0.0%
Chrysene	2.70	3.00	90.0%	2.77	3.00	92.3%	2.6%
Benzo (a) pyrene	2.19	3.00	73.0%	2.10	3.00	70.0%	4.2%
Indeno (1,2,3-cd) pyrene	2.46	3.00	82.0%	2.53	3.00	84.3%	2.8%
Dibenz (a,h) anthracene	2.52	3.00	84.0%	2.49	3.00	83.0%	1.2%
Total Benzofluoranthenes	5.41	6.00	90.2%	5.41	6.00	90.2%	0.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	68.3%	67.7%
d14-Dibenzo (a,h) anthracene	81.7%	74.0%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

SS71MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Lab File ID: 04291118

Date Extracted: 04/28/11

Instrument ID: NT4

Date Analyzed: 04/30/11

Matrix: SOLID


Time Analyzed: 0008

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	SS71LCSS1	SS71LCSS1	04291119	04/30/11
02	LL-SB6-0-0.5-041	SS71A	04291121	04/30/11
03	LL-SB6-1.5-2-041	SS71B	04291122	04/30/11
04	LL-SB6-2-4-04181	SS71C	04291123	04/30/11
05	LL-SB5-0-0.5-041	SS71D	04291124	04/30/11
06	LL-SB5-1.5-2-041	SS71E	04291125	04/30/11
07	LL-SB5-2-4-04181	SS71F	05021103	05/02/11
08	LL-SB4-0-0.5-041	SS71G	05021104	05/02/11
09	LL-SB4-1.5-2-041	SS71H	05021106	05/02/11
10	LL-SB4-2-4-04191	SS71I	05021107	05/02/11
11	LL-SB4-2-4-0419	SS71IMS	05021108	05/02/11
12	LL-SB4-2-4-0419	SS71IMSD	05021109	05/02/11
13	LL-SB3-0-0.5-041	SS71J	05021110	05/02/11
14	LL-SB3-1.5-2-041	SS71K	05021111	05/02/11
15	LL-SB3-2-4-04191	SS71L	05021112	05/02/11
16	LL-SB2-0-0.5-041	SS71M	05021113	05/02/11
17	LL-SB2-1.5-2-041	SS71N	05021114	05/02/11
18	LL-SB2-2-3.5-041	SS71O	05021115	05/02/11
19	LL-SB1-0-0.5-041	SS71P	05021116	05/02/11
20	LL-SB1-0-0.5-041	SS71Q	05021117	05/02/11
21	LL-SB1-1.5-2-041	SS71R	05021118	05/02/11
22	LL-SB1-2-4-04191	SS71S	05021119	05/02/11
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ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MB-042811
METHOD BLANK

Lab Sample ID: MB-042811
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: 
 Reported: 05/03/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: NA
 Date Received: NA

Date Extracted: 04/28/11
 Date Analyzed: 04/30/11 00:08
 Instrument/Analyst: NT4/JZ
 GPC Cleanup: No
 Silica Gel Cleanup: Yes
 Alumina Cleanup: No

Sample Amount: 10.00 g-dry-wt
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
TOTBFA	Total Benzofluoranthenes	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.0%
 d14-Dibenzo(a,h)anthracen 62.0%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

SS71MBW1

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SS71
Lab File ID: 04271107
Instrument ID: NT4
Matrix: LIQUID

Client: FLOYD SNIDER
Project: LORA LAKE PARCEL
Date Extracted: 04/21/11
Date Analyzed: 04/27/11
Time Analyzed: 1724

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	SS71LCSW1	SS71LCSW1	04271108	04/27/11
02	SS71LCSDW1	SS71LCSDW1	04271109	04/27/11
03	LL-ER-041911	SS71T	04271111	04/27/11
04	DMA-RB-042011	SS83P	04271112	04/27/11
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ORGANICS ANALYSIS DATA SHEET

PNA's by SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: MB-042111

METHOD BLANK

Lab Sample ID: MB-042111

LIMS ID: 11-8673

Matrix: Water

Data Release Authorized: 

Reported: 04/29/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: NA

Date Received: NA

Date Extracted: 04/21/11

Date Analyzed: 04/27/11 17:24

Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.10	< 0.10 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.0%
d14-Dibenzo(a,h)anthracene 77.7%

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT4

Project: LORA LAKE PARCEL

DFTPP Injection Date: 04/21/11

DFTPP Injection Time: 1952

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	34.6
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	10.0 - 80.0% of mass 198	54.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 60.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	2.54
441	0.0 - 24.0% of mass 442	8.3 (8.8)2
442	50.0 - 200.0% of mass 198	94.4
443	15.0 - 24.0% of mass 442	19.2 (20.4)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC240521	IC250421	04211102	04/21/11	2007
02	IC010421	IC010421	04211103	04/21/11	2034
03	IC050421	IC050421	04211104	04/21/11	2102
04	IC10421	IC10421	04211105	04/21/11	2130
05	IC50421	IC50421	04211106	04/21/11	2158
06	IC100421	IC100421	04211107	04/21/11	2225
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT4

Project: LORA LAKE PARCEL

DFTPP Injection Date: 04/27/11

DFTPP Injection Time: 1125

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	25.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	30.7
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	53.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1.0% of mass 198	2.37
441	0.0 - 24.0% of mass 442	14.2 (15.1)2
442	50.0 - 200.0% of mass 198	93.9
443	15.0 - 24.0% of mass 442	19.3 (20.6)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0427	CC0427	04271102	04/27/11	1500
02	SS71MBW1	SS71MBW1	04271107	04/27/11	1724
03	SS71LCSW1	SS71LCSW1	04271108	04/27/11	1752
04	SS71LCSDW1	SS71LCSDW1	04271109	04/27/11	1819
05	LL-ER-041911	SS71T	04271111	04/27/11	1915
06	DMA-RB-042011	SS83P	04271112	04/27/11	1943
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT4

Project: LORA LAKE PARCEL

DFTPP Injection Date: 04/29/11

DFTPP Injection Time: 1611

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	25.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	30.3
70	Less than 2.0% of mass 69	0.1 (0.4)1
127	10.0 - 80.0% of mass 198	53.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1.0% of mass 198	2.79
441	0.0 - 24.0% of mass 442	18.3 (15.6)2
442	50.0 - 200.0% of mass 198	117.1
443	15.0 - 24.0% of mass 442	24.9 (21.3)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0429	CC0429	04291102	04/29/11	1626
02	SS71MBS1	SS71MBS1	04291118	04/30/11	0008
03	SS71LCSS1	SS71LCSS1	04291119	04/30/11	0035
04	LL-SB6-0-0.5-041	SS71A	04291121	04/30/11	0131
05	LL-SB6-1.5-2-041	SS71B	04291122	04/30/11	0158
06	LL-SB6-2-4-04181	SS71C	04291123	04/30/11	0226
07	LL-SB5-0-0.5-041	SS71D	04291124	04/30/11	0253
08	LL-SB5-1.5-2-041	SS71E	04291125	04/30/11	0321
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22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT4

Project: LORA LAKE PARCEL

DFTPP Injection Date: 05/02/11

DFTPP Injection Time: 1144

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	26.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	30.8
70	Less than 2.0% of mass 69	0.1 (0.4)1
127	10.0 - 80.0% of mass 198	53.0
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 60.0% of mass 198	26.3
365	Greater than 1.0% of mass 198	2.69
441	0.0 - 24.0% of mass 442	11.2 (10.1)2
442	50.0 - 200.0% of mass 198	111.3
443	15.0 - 24.0% of mass 442	23.6 (21.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0502	CC0502	05021102	05/02/11	1206
02	LL-SB5-2-4-04181	SS71F	05021103	05/02/11	1256
03	LL-SB4-0-0.5-041	SS71G	05021104	05/02/11	1323
04	LL-SB4-1.5-2-041	SS71H	05021106	05/02/11	1419
05	LL-SB4-2-4-04191	SS71I	05021107	05/02/11	1450
06	LL-SB4-2-4-0419	SS71IMS	05021108	05/02/11	1518
07	LL-SB4-2-4-0419	SS71IMSD	05021109	05/02/11	1546
08	LL-SB3-0-0.5-041	SS71J	05021110	05/02/11	1613
09	LL-SB3-1.5-2-041	SS71K	05021111	05/02/11	1641
10	LL-SB3-2-4-04191	SS71L	05021112	05/02/11	1709
11	LL-SB2-0-0.5-041	SS71M	05021113	05/02/11	1736
12	LL-SB2-1.5-2-041	SS71N	05021114	05/02/11	1804
13	LL-SB2-2-3.5-041	SS71O	05021115	05/02/11	1832
14	LL-SB1-0-0.5-041	SS71P	05021116	05/02/11	1859
15	LL-SB1-0-0.5-041	SS71Q	05021117	05/02/11	1927
16	LL-SB1-1.5-2-041	SS71R	05021118	05/02/11	1955
17	LL-SB1-2-4-04191	SS71S	05021119	05/02/11	2022
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SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Instrument ID: NT4

Calibration Date: 04/21/11

LAB FILE ID:	RRF0.1=04211103	RRF0.5=04211104	RRF1 =04211105
	RRF2.5=04211102	RRF5 =04211106	RRF10 =04211107

COMPOUND	RRF 0.1	RRF 0.5	RRF 1	RRF 2.5	RRF 5	RRF 10	RRF RRF	%RSD /R^2
Naphthalene	1.072	0.889	0.858	0.933	0.872	0.785	0.902	10.7
2-Methylnaphthalene	0.589	0.495	0.485	0.526	0.495	0.446	0.506	9.5
Acenaphthylene	1.908	1.520	1.560	1.674	1.621	1.495	1.630	9.3
Acenaphthene	1.142	0.977	0.964	1.017	0.990	0.923	1.002	7.5
Dibenzofuran	1.536	1.304	1.315	1.416	1.376	1.278	1.371	6.9
Fluorene	1.330	1.131	1.108	1.203	1.177	1.108	1.176	7.2
Phenanthrene	1.173	0.930	0.929	0.977	0.966	0.898	0.979	10.2
Anthracene	1.168	0.984	0.974	1.042	1.003	0.916	1.014	8.4
Fluoranthene	1.278	1.030	1.010	1.079	1.074	1.016	1.081	9.3
Pyrene	1.142	0.957	0.906	1.011	1.025	0.992	1.006	7.9
Benzo(a)anthracene	1.036	0.875	0.874	0.962	0.937	0.913	0.933	6.6
Chrysene	1.034	0.852	0.840	0.922	0.906	0.870	0.904	7.9
Benzo(b)fluoranthene	1.247	1.012	1.055	1.088	1.077	1.032	1.085	7.7
Benzo(k)fluoranthene	1.238	1.138	1.047	1.107	1.086	1.083	1.116	6.0
Benzo(j)fluoranthene	1.258	1.034	1.196	1.079	1.018	0.985	1.095	9.9
Benzo(a)pyrene	1.108	0.916	0.889	0.992	0.982	0.940	0.971	8.0
Indeno(1,2,3-cd)pyrene	1.201	1.007	1.110	1.219	1.184	1.132	1.142	6.9
Dibenzo(a,h)anthracene	0.911	0.829	0.912	0.998	0.983	0.925	0.926	6.5
Benzo(g,h,i)perylene	1.073	0.898	0.922	1.008	0.999	0.952	0.975	6.6
1-methylnaphthalene	0.611	0.517	0.505	0.547	0.513	0.462	0.526	9.5
Perylene	0.942	0.773	0.772	0.846	0.823	0.784	0.823	8.0
2-Methylnaphthalene-d10	0.631	0.542	0.556	0.581	0.548	0.496	0.559	8.0
Dibenzo(a,h)anthracene-d14	0.824	0.749	0.799	0.890	0.871	0.831	0.827	6.1

<- Outside QC limits: %RSD <20% or R^2 > 0.990

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Instrument ID: NT4

Cont. Calib. Date: 04/27/11

Init. Calib. Date: 04/21/11

Cont. Calib. Time: 1500

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.902	0.905	0.700	AVRG	0.3
2-Methylnaphthalene	0.506	0.501	0.400	AVRG	-1.0
Acenaphthylene	1.630	1.633	0.900	AVRG	0.2
Acenaphthene	1.002	0.988	0.900	AVRG	-1.4
Dibenzofuran	1.371	1.448	0.800	AVRG	5.6
Fluorene	1.176	1.203	0.900	AVRG	2.3
Phenanthrene	0.979	0.978	0.700	AVRG	-0.1
Anthracene	1.014	1.000	0.700	AVRG	-1.4
Fluoranthene	1.081	1.066	0.600	AVRG	-1.4
Pyrene	1.006	1.056	0.600	AVRG	5.0
Benzo(a)anthracene	0.933	0.949	0.800	AVRG	1.7
Chrysene	0.904	0.910	0.700	AVRG	0.7
Benzo(b)fluoranthene	1.085	1.121	0.700	AVRG	3.3
Benzo(k)fluoranthene	1.116	1.125	0.700	AVRG	0.8
Benzo(j)fluoranthene	1.095	1.056	0.010	AVRG	-3.6
Benzo(a)pyrene	0.971	1.012	0.700	AVRG	4.2
Indeno(1,2,3-cd)pyrene	1.142	1.220	0.500	AVRG	6.8
Dibenzo(a,h)anthracene	0.926	0.988	0.400	AVRG	6.7
Benzo(g,h,i)perylene	0.975	1.049	0.500	AVRG	7.6
1-methylnaphthalene	0.526	0.520	0.010	AVRG	-1.1
Perylene	0.823	0.843	0.010	AVRG	2.4
2-Methylnaphthalene-d10	0.559	0.586	0.010	AVRG	4.8
Dibenzo(a,h)anthracene-d14	0.827	0.873	0.010	AVRG	5.6

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Instrument ID: NT4

Cont. Calib. Date: 04/29/11

Init: Calib. Date: 04/21/11

Cont. Calib. Time: 1626

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.902	0.904	0.700	AVRG	0.2
2-Methylnaphthalene	0.506	0.497	0.400	AVRG	-1.8
Acenaphthylene	1.630	1.591	0.900	AVRG	-2.4
Acenaphthene	1.002	0.990	0.900	AVRG	-1.2
Dibenzofuran	1.371	1.438	0.800	AVRG	4.9
Fluorene	1.176	1.213	0.900	AVRG	3.1
Phenanthrene	0.979	0.964	0.700	AVRG	-1.5
Anthracene	1.014	0.990	0.700	AVRG	-2.4
Fluoranthene	1.081	1.033	0.600	AVRG	-4.4
Pyrene	1.006	1.068	0.600	AVRG	6.2
Benzo(a)anthracene	0.933	0.948	0.800	AVRG	1.6
Chrysene	0.904	0.933	0.700	AVRG	3.2
Benzo(b)fluoranthene	1.085	1.164	0.700	AVRG	7.3
Benzo(k)fluoranthene	1.116	1.192	0.700	AVRG	6.8
Benzo(j)fluoranthene	1.095	1.114	0.010	AVRG	1.7
Benzo(a)pyrene	0.971	1.014	0.700	AVRG	4.4
Indeno(1,2,3-cd)pyrene	1.142	1.171	0.500	AVRG	2.5
Dibenzo(a,h)anthracene	0.926	0.949	0.400	AVRG	2.5
Benzo(g,h,i)perylene	0.975	1.006	0.500	AVRG	3.2
1-methylnaphthalene	0.526	0.528	0.010	AVRG	0.4
Perylene	0.823	0.838	0.010	AVRG	1.8
2-Methylnaphthalene-d10	0.559	0.573	0.010	AVRG	2.5
Dibenzo(a,h)anthracene-d14	0.827	0.838	0.010	AVRG	1.3

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Instrument ID: NT4

Cont. Calib. Date: 05/02/11

Init. Calib. Date: 04/21/11

Cont. Calib. Time: 1206

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Naphthalene	0.902	0.884	0.700	AVRG	-2.0
2-Methylnaphthalene	0.506	0.490	0.400	AVRG	-3.2
Acenaphthylene	1.630	1.640	0.900	AVRG	0.6
Acenaphthene	1.002	0.971	0.900	AVRG	-3.1
Dibenzofuran	1.371	1.407	0.800	AVRG	2.6
Fluorene	1.176	1.184	0.900	AVRG	0.7
Phenanthrene	0.979	0.984	0.700	AVRG	0.5
Anthracene	1.014	0.999	0.700	AVRG	-1.5
Fluoranthene	1.081	1.079	0.600	AVRG	-0.2
Pyrene	1.006	1.039	0.600	AVRG	3.3
Benzo(a)anthracene	0.933	0.946	0.800	AVRG	1.4
Chrysene	0.904	0.923	0.700	AVRG	2.1
Benzo(b)fluoranthene	1.085	1.123	0.700	AVRG	3.5
Benzo(k)fluoranthene	1.116	1.112	0.700	AVRG	-0.4
Benzo(j)fluoranthene	1.095	1.072	0.010	AVRG	-2.1
Benzo(a)pyrene	0.971	1.011	0.700	AVRG	4.1
Indeno(1,2,3-cd)pyrene	1.142	1.185	0.500	AVRG	3.8
Dibenzo(a,h)anthracene	0.926	0.982	0.400	AVRG	6.0
Benzo(g,h,i)perylene	0.975	1.028	0.500	AVRG	5.4
1-methylnaphthalene	0.526	0.511	0.010	AVRG	-2.8
Perylene	0.823	0.840	0.010	AVRG	2.1
=====	=====	=====	=====	=====	=====
2-Methylnaphthalene-d10	0.559	0.567	0.010	AVRG	1.4
Dibenzo(a,h)anthracene-d14	0.827	0.861	0.010	AVRG	4.1

<- Exceeds QC limit of 20% D

* RF less than minimum RF

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Ical Midpoint ID: 04211102

Ical Date: 04/21/11

Instrument ID: NT4

Cont. Cal Date: 04/27/11

	IS1 (NPT)		IS2 (ANT)		IS3 (PHN)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	279997	5.49	158527	7.77	277528	9.74
UPPER LIMIT	559994		317054		555056	
LOWER LIMIT	139998		79264		138764	
=====	=====	=====	=====	=====	=====	=====
CCAL	249565	5.17	144429	7.44	246904	9.40
UPPER LIMIT		5.67		7.94		9.90
LOWER LIMIT		4.67		6.94		8.90
01 SS71MBW1	232939	5.16	143495	7.43	237941	9.39
02 SS71LCSW1	246394	5.16	148712	7.44	252927	9.39
03 SS71LCSW1	244820	5.16	148105	7.43	247522	9.40
04 LL-ER-041911	245337	5.16	148022	7.43	245996	9.39
05 DMA-RB-04201	228702	5.16	134991	7.43	227818	9.39
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IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Ical Midpoint ID: 04211102

Ical Date: 04/21/11

Instrument ID: NT4

Cont. Cal Date: 04/27/11

	IS4 (CRY)		IS5 (PRY)			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	304025	14.98	257984	18.83		
UPPER LIMIT	608050		515968			
LOWER LIMIT	152012		128992			
=====	=====	=====	=====	=====	=====	=====
CCAL	250091	14.40	213372	18.17		
UPPER LIMIT		14.90		18.67		
LOWER LIMIT		13.90		17.67		
01 SS71MBW1	240655	14.38	202907	18.16		
02 SS71LCSW1	260036	14.38	212958	18.16		
03 SS71LCSDW1	260450	14.38	215888	18.16		
04 LL-ER-041911	257042	14.38	209525	18.16		
05 DMA-RB-04201	236394	14.38	187726	18.16		
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IS4 = Chrysene-d12

IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Ical Midpoint ID: 04211102

Ical Date: 04/21/11

Instrument ID: NT4

Cont. Cal Date: 04/29/11

	IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	279997	5.49	158527	7.77	277528	9.74
UPPER LIMIT	559994		317054		555056	
LOWER LIMIT	139998		79264		138764	
=====	=====	=====	=====	=====	=====	=====
CCAL	265017	4.99	151334	7.25	265313	9.20
UPPER LIMIT		5.49		7.75		9.70
LOWER LIMIT		4.49		6.75		8.70
01 SS71MBS1	251039	4.98	145779	7.24	248170	9.19
02 SS71LCSS1	263020	4.98	153946	7.24	262393	9.19
03 LL-SB6-0-0.5	259755	4.98	152649	7.24	250096	9.20
04 LL-SB6-1.5-2	268430	4.98	157403	7.24	260551	9.20
05 LL-SB6-2-4-0	281581	4.98	166857	7.24	275077	9.19
06 LL-SB5-0-0.5	281155	4.98	166978	7.24	273628	9.20
07 LL-SB5-1.5-2	282215	4.99	163961	7.25	275518	9.20
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IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Ical Midpoint ID: 04211102

Ical Date: 04/21/11

Instrument ID: NT4

Cont. Cal Date: 04/29/11

	IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	304025	14.98	257984	18.83		
UPPER LIMIT	608050		515968			
LOWER LIMIT	152012		128992			
=====	=====	=====	=====	=====	=====	=====
CCAL	261826	14.04	225077	17.76		
UPPER LIMIT		14.54		18.26		
LOWER LIMIT		13.54		17.26		
01 SS71MBS1	252352	14.03	212784	17.75		
02 SS71LCSS1	269071	14.03	224278	17.75		
03 LL-SB6-0-0.5	272070	14.03	230054	17.76		
04 LL-SB6-1.5-2	265649	14.03	214824	17.75		
05 LL-SB6-2-4-0	279591	14.03	230145	17.76		
06 LL-SB5-0-0.5	291253	14.06	178009	17.80		
07 LL-SB5-1.5-2	281758	14.05	206595	17.78		
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IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Ical Midpoint ID: 04211102

Ical Date: 04/21/11

Instrument ID: NT4

Cont. Cal Date: 05/02/11

	IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	279997	5.49	158527	7.77	277528	9.74
UPPER LIMIT	559994		317054		555056	
LOWER LIMIT	139998		79264		138764	
=====	=====	=====	=====	=====	=====	=====
CCAL	270718	4.88	151770	7.14	259984	9.08
UPPER LIMIT		5.38		7.64		9.58
LOWER LIMIT		4.38		6.64		8.58
01 LL-SB5-2-4-0	272094	4.88	157446	7.14	258735	9.08
02 LL-SB4-0-0.5	244161	4.87	144533	7.13	233714	9.08
03 LL-SB4-1.5-2	263692	4.87	155268	7.13	259071	9.08
04 LL-SB4-2-4-0	262700	4.88	155429	7.13	260916	9.08
05 LL-SB4-2-4-0	244684	4.87	145430	7.13	251307	9.08
06 LL-SB4-2-4-0	256491	4.87	150228	7.13	258810	9.07
07 LL-SB3-0-0.5	244543	4.87	145688	7.13	241477	9.07
08 LL-SB3-1.5-2	252640	4.87	152058	7.13	252074	9.07
09 LL-SB3-2-4-0	257926	4.87	151824	7.13	257714	9.07
10 LL-SB2-0-0.5	258494	4.87	153505	7.13	252652	9.07
11 LL-SB2-1.5-2	252693	4.87	152200	7.12	255533	9.07
12 LL-SB2-2-3.5	257573	4.87	153518	7.13	256039	9.07
13 LL-SB1-0-0.5	255712	4.87	153567	7.13	259503	9.07
14 LL-SB1-0-0.5	258077	4.87	151829	7.13	256536	9.07
15 LL-SB1-1.5-2	260204	4.87	153705	7.13	257202	9.07
16 LL-SB1-2-4-0	261780	4.87	156393	7.13	259469	9.07
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IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SS71

Project: LORA LAKE PARCEL

Ical Midpoint ID: 04211102

Ical Date: 04/21/11

Instrument ID: NT4

Cont. Cal Date: 05/02/11

	IS4 (CRY)		IS5 (PRY)			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	304025	14.98	257984	18.83		
UPPER LIMIT	608050		515968			
LOWER LIMIT	152012		128992			
=====	=====	=====	=====	=====	=====	=====
CCAL	277425	13.83	235578	17.52		
UPPER LIMIT		14.33		18.02		
LOWER LIMIT		13.33		17.02		
01 LL-SB5-2-4-0	269213	13.84	244261	17.53		
02 LL-SB4-0-0.5	248988	13.83	216732	17.52		
03 LL-SB4-1.5-2	265384	13.82	218331	17.51		
04 LL-SB4-2-4-0	268105	13.82	229624	17.51		
05 LL-SB4-2-4-0	251059	13.82	224082	17.51		
06 LL-SB4-2-4-0	267676	13.82	228753	17.51		
07 LL-SB3-0-0.5	248117	13.82	220424	17.51		
08 LL-SB3-1.5-2	258113	13.82	225005	17.50		
09 LL-SB3-2-4-0	262559	13.82	229636	17.51		
10 LL-SB2-0-0.5	263940	13.82	225665	17.51		
11 LL-SB2-1.5-2	269043	13.82	227743	17.51		
12 LL-SB2-2-3.5	277006	13.82	229557	17.50		
13 LL-SB1-0-0.5	270905	13.82	223897	17.51		
14 LL-SB1-0-0.5	270476	13.82	224539	17.51		
15 LL-SB1-1.5-2	268298	13.82	228949	17.51		
16 LL-SB1-2-4-0	271074	13.82	235916	17.51		
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS4 = Chrysene-d12

IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint

AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint

RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal

RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

**PCP/Chlorophenols Analysis
Report and Summary QC Forms**

ARI Job ID: SS71

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-ER-041911
SAMPLE

Lab Sample ID: SS71T

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8673

Project: Lora Lake Parcel

Matrix: Water

POS-LL

Data Release Authorized: *JS*

Date Sampled: 04/19/11

Reported: 05/06/11

Date Received: 04/19/11

Date Extracted: 04/22/11

Sample Amount: 500 mL

Date Analyzed: 05/04/11 21:11

Final Extract Volume: 50 mL

Instrument/Analyst: ECD1/AAR

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	86.0%	

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MB-042211	82.0%	0
LCS-042211	84.4%	0
LCSD-042211	81.2%	0
LL-ER-041911	86.0%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(40-130)	(11-156)

Prep Method: SW3510C
Log Number Range: 11-8673 to 11-8673

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: LCS-042211

LCS/LCSD

Lab Sample ID: LCS-042211

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8673

Project: Lora Lake Parcel

Matrix: Water

POS-LL

Data Release Authorized: *[Signature]*

Date Sampled: 04/19/11

Reported: 05/06/11

Date Received: 04/19/11

Date Extracted LCS/LCSD: 04/22/11

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 05/04/11 19:22

Final Extract Volume LCS: 50 mL

LCSD: 05/04/11 19:59

LCSD: 50 mL

Instrument/Analyst LCS: ECD1/AAR

Dilution Factor LCS: 1.00

LCSD: ECD1/AAR

LCSD: 1.00

Analyte	Spike		LCS		Spike		LCSD		RPD
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	LCSD		
Pentachlorophenol	2.28	2.50	91.2%	2.18	2.50	87.2%	4.5%		

Chlorophenols Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	84.4%	81.2%

Results reported in µg/L

RPD calculated using sample concentrations per SW846.

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

SS71MBW1

Lab Name: ANALYTICAL RESOURCES, INC	Client: FLOYD SNIDER
ARI Job No.: SS71	Project: LORA LAKE PARCEL
Lab Sample ID: SS71MBW1	Lab File ID: 0504A017
Matrix (soil/water) LIQUID	Extraction: (SepF/Cont/Sonc) SW3510C
Sulfur Cleanup (Y/N) Y	Date Extracted: 04/22/11
Date Analyzed (1): 05/04/11	Date Analyzed (2): 05/04/11
Time Analyzed (1): 1846	Time Analyzed (2): 1846
Instrument ID (1): ECD1	Instrument ID (2): ECD1
GC Column (1): STX CLP1 ID: 0.53 (mm)	GC Column (2): STX CLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	SS71LCSW1	SS71LCSW1	05/04/11	05/04/11
02	SS71LCSDW1	SS71LCSDW1	05/04/11	05/04/11
03	LL-ER-041911	SS71T	05/04/11	05/04/11
04	DMA-RB-04201	SS83P	05/04/11	05/04/11

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MB-042211
METHOD BLANK

Lab Sample ID: MB-042211
 LIMS ID: 11-8673
 Matrix: Water
 Data Release Authorized: *JB*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: NA
 Date Received: NA

Date Extracted: 04/22/11
 Date Analyzed: 05/04/11 18:46
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	82.0%	

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.93	21.07
2,4,6-Trichloropheno	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.03	13.17
2,3,6-Trichloropheno	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.03	14.17
2,4,5-Trichloropheno	15.85	15.85	15.85	15.84	15.85	15.85	15.84	15.78	15.91
2,3,4-Trichloropheno	17.36	17.35	17.35	17.35	17.35	17.35	17.35	17.28	17.42
2,3,5,6-Tetrachlorop	17.16	17.15	17.15	17.15	17.15	17.15	17.15	17.08	17.22
2,3,4,5-Tetrachlorop	20.16	20.16	20.16	20.15	20.15	20.16	20.16	20.08	20.22
2,4-Dichlorophenol	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.48	12.62
2,4,6-Tribromophenol	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.53	18.67

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.90	23.04
2,4,6-Trichloropheno	14.31	14.31	14.31	14.31	14.31	14.31	14.31	14.24	14.38
2,3,6-Trichloropheno	15.56	15.56	15.56	15.56	15.56	15.56	15.56	15.49	15.63
2,4,5-Trichloropheno	17.48	17.47	17.47	17.47	17.47	17.47	17.47	17.40	17.54
2,3,4-Trichloropheno	19.03	19.02	19.02	19.02	19.02	19.02	19.02	18.95	19.09
2,3,5,6-Tetrachlorop	18.82	18.81	18.81	18.81	18.81	18.81	18.81	18.74	18.88
2,3,4,5-Tetrachlorop	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.01	22.15
2,4-Dichlorophenol	13.82	13.82	13.82	13.82	13.82	13.82	13.82	13.75	13.89
2,4,6-Tribromophenol	20.94	20.94	20.94	20.94	20.94	20.94	20.94	20.87	21.01

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	24557	22356	20781	19124	17785	16292	15.1	A
2,4,6-Trichlorophenol	15281	13835	12795	11181	10412	9532	17.9	A
2,3,6-Trichlorophenol	14259	12818	11863	10765	9925	9085	16.7	A
2,4,5-Trichlorophenol	12140	8082	7421	6534	5905	5130	0.9996	Q
2,3,4-Trichlorophenol	10565	9519	8778	7811	7138	6322	18.8	A
2,3,5,6-Tetrachloroph	20194	18565	17499	16125	15182	13876	13.7	A
2,3,4,5-Tetrachloroph	16824	14772	13475	11938	10977	9904	19.7	A
2,4-Dichlorophenol	1040	896	796	655	559	482	0.9992	Q
2,4,6-Tribromophenol	18340	16896	15885	15230	14566	13549	10.8	A
AVE RSD							19.4	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

- LVL 1: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A010.d
- LVL 2: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A011.d
- LVL 3: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A012.d
- LVL 4: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A009.d
- LVL 5: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A013.d
- LVL 6: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A014.d

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	35686	31408	28958	26156	24465	22293	17.4	A
2,4,6-Trichlorophenol	18173	16199	15364	13872	12302	11052	18.0	A
2,3,6-Trichlorophenol	17538	16304	15194	13812	12444	10948	17.1	A
2,4,5-Trichlorophenol	10375	9203	8375	7827	6888	5906	19.8	A
2,3,4-Trichlorophenol	13793	11382	10368	9080	8182	7194	0.9997	Q
2,3,5,6-Tetrachloroph	28198	24060	22545	20410	19063	17352	17.7	A
2,3,4,5-Tetrachloroph	21700	18848	16677	15352	13827	12342	0.9998	Q
2,4-Dichlorophenol	1124	962	835	702	594	505	0.9994	Q
2,4,6-Tribromophenol	26776	22121	21311	19850	18746	17341	15.7	A
AVE RSD							20.0	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A010.d
 LVL 2: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A011.d
 LVL 3: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A012.d
 LVL 4: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A009.d
 LVL 5: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A013.d
 LVL 6: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A014.d

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/04/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1810

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	23.5	25.0	-6.0
2,4,6-Trichlorophenol	13.10	13.03	13.17	23.3	25.0	-6.8
2,3,6-Trichlorophenol	14.10	14.03	14.17	23.2	25.0	-7.2
2,4,5-Trichlorophenol	15.85	15.78	15.91	24.7	25.0	-1.2
2,3,4-Trichlorophenol	17.35	17.28	17.42	23.2	25.0	-7.2
2,3,5,6-Tetrachlorophenol	17.15	17.08	17.22	23.7	25.0	-5.2
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	22.4	25.0	-10.4
2,4-Dichlorophenol	12.56	12.48	12.62	260	250	4.0
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	23.9	25.0	-4.4

AVERAGE %D = 5.8

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/04/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1810

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	23.5	25.0	-6.0
2,4,6-Trichlorophenol	14.31	14.24	14.38	23.2	25.0	-7.2
2,3,6-Trichlorophenol	15.56	15.49	15.63	22.8	25.0	-8.8
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.0	25.0	-8.0
2,3,4-Trichlorophenol	19.02	18.95	19.09	24.6	25.0	-1.6
2,3,5,6-Tetrachlorophenol	18.81	18.74	18.88	23.2	25.0	-7.2
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	24.5	25.0	-2.0
2,4-Dichlorophenol	13.82	13.75	13.89	242	250	-3.2
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	23.4	25.0	-6.4

AVERAGE %D = 5.6

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/05/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0125

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	24.1	25.0	-3.6
2,4,6-Trichlorophenol	13.11	13.03	13.17	23.6	25.0	-5.6
2,3,6-Trichlorophenol	14.10	14.03	14.17	23.5	25.0	-6.0
2,4,5-Trichlorophenol	15.85	15.78	15.91	24.7	25.0	-1.2
2,3,4-Trichlorophenol	17.36	17.28	17.42	23.4	25.0	-6.4
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	24.1	25.0	-3.6
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	23.2	25.0	-7.2
2,4-Dichlorophenol	12.56	12.48	12.62	261	250	4.4
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	24.4	25.0	-2.4

AVERAGE %D = 4.5

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SS71 Project: LORA LAKE PARCEL
 GC Column: STX CLP2 ID: 0.53 (mm)
 Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP): Date Analyzed :05/05/11
 Lab Sample ID (PCP): PCP CCAL Time Analyzed :0125

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	23.9	25.0	-4.4
2,4,6-Trichlorophenol	14.32	14.24	14.38	23.5	25.0	-6.0
2,3,6-Trichlorophenol	15.56	15.49	15.63	22.9	25.0	-8.4
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.2	25.0	-7.2
2,3,4-Trichlorophenol	19.03	18.95	19.09	25.0	25.0	0.0
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	23.6	25.0	-5.6
2,3,4,5-Tetrachlorophenol	22.09	22.01	22.15	25.2	25.0	0.8
2,4-Dichlorophenol	13.83	13.75	13.89	245	250	-2.0
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	24.1	25.0	-3.6

AVERAGE %D = 4.2

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SS71 Project: LORA LAKE PARCEL
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 18.60					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	18.60	
02	PCPA	05/04/11	1432	18.60	
03	PCPB	05/04/11	1508	18.60	
04	PCPC	05/04/11	1544	18.60	
05	PCPE	05/04/11	1621	18.60	
06	PCPF	05/04/11	1657	18.60	
07	ZZZZZ	05/04/11	1733	18.60	
08	PCP CCAL	05/04/11	1810	18.60	
09	SS71MBW1	05/04/11	1846	18.60	
10	SS71LCSW1	05/04/11	1922	18.60	
11	SS71LCSDW1	05/04/11	1959	18.60	
12	ZZZZZ	05/04/11	2035	18.60	
13	LL-ER-041911	05/04/11	2111	18.60	
14	DMA-RB-04201	05/04/11	2148	18.60	
15	PCP CCAL	05/05/11	0125	18.60	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SS71 Project: LORA LAKE PARCEL
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.94					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	20.94	
02	PCPA	05/04/11	1432	20.94	
03	PCPB	05/04/11	1508	20.94	
04	PCPC	05/04/11	1544	20.94	
05	PCPE	05/04/11	1621	20.94	
06	PCPF	05/04/11	1657	20.94	
07	ZZZZZ	05/04/11	1733	20.94	
08	PCP CCAL	05/04/11	1810	20.94	
09	SS71MBW1	05/04/11	1846	20.94	
10	SS71LCSW1	05/04/11	1922	20.94	
11	SS71LCSDW1	05/04/11	1959	20.94	
12	ZZZZZ	05/04/11	2035	20.94	
13	LL-ER-041911	05/04/11	2111	20.94	
14	DMA-RB-04201	05/04/11	2148	20.94	
15	PCP CCAL	05/05/11	0125	20.94	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

Sample ID: LL-SB6-0-0.5-041811
SAMPLE

Lab Sample ID: SS71A
LIMS ID: 11-8654
Matrix: Soil
Data Release Authorized: *mm*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 11:05
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.42 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 17.6%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.4	24
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	84.4%	

Sample ID: LL-SB6-1.5-2-041811
SAMPLE

Lab Sample ID: SS71B
LIMS ID: 11-8655
Matrix: Soil
Data Release Authorized: *mm*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 11:41
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.85 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 12.2%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.1	< 7.1 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	83.2%
----------------------	-------

Sample ID: LL-SB6-2-4-041811
SAMPLE

Lab Sample ID: SS71C
LIMS ID: 11-8656
Matrix: Soil
Data Release Authorized: *MMW*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 12:18
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.92 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 11.0%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.0	< 7.0 U
	Reported in µg/kg (ppb)		
	Chlorophenol Surrogate Recovery		
	2,4,6-Tribromophenol	80.4%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB5-0-0.5-041811
SAMPLE

Lab Sample ID: SS71D
 LIMS ID: 11-8657
 Matrix: Soil
 Data Release Authorized: *mw*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 12:54
 Instrument/Analyst: ECD1/AAR

Sample Amount: 7.15 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 28.7%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	8.7	< 8.7 U
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	74.4%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB5-1.5-2-041811
SAMPLE

Lab Sample ID: SS71E
 LIMS ID: 11-8658
 Matrix: Soil
 Data Release Authorized: *mm*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 13:30
 Instrument/Analyst: ECD1/AAR

Sample Amount: 8.90 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 12.8%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.0	< 7.0 U
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	79.6%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: LL-SB5-2-4-041811
SAMPLE

Lab Sample ID: SS71F
LIMS ID: 11-8659
Matrix: Soil
Data Release Authorized: *MMW*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 14:07
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.26 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.6	< 7.6 U
	Reported in µg/kg (ppb)		
	Chlorophenol Surrogate Recovery		
	2,4,6-Tribromophenol	79.2%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB4-0-0.5-041911
SAMPLE

Lab Sample ID: SS71G
 LIMS ID: 11-8660
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 15:56
 Instrument/Analyst: ECD1/AAR

Sample Amount: 8.29 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.5	< 7.5 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	89.6%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: LL-SB4-1.5-2-041911

SAMPLE

Lab Sample ID: SS71H

LIMS ID: 11-8661

Matrix: Soil

Data Release Authorized: *mm*

Reported: 05/06/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Extracted: 04/27/11

Date Analyzed: 05/05/11 16:32

Instrument/Analyst: ECD1/AAR

Sample Amount: 8.98 g-dry-wt

Final Extract Volume: 25 mL

Dilution Factor: 1.00

Percent Moisture: 11.4%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.0	< 7.0 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	74.4%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB4-2-4-041911
SAMPLE

Lab Sample ID: SS71I
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: *mmw*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 17:08
 Instrument/Analyst: ECD1/AAR

Sample Amount: 8.75 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.1	< 7.1 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	76.8%
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Lab Sample ID: SS71J
LIMS ID: 11-8663
Matrix: Soil
Data Release Authorized: *MMW*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 18:57
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.74 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.2	< 7.2 U
	Reported in µg/kg (ppb)		
	Chlorophenol Surrogate Recovery		
	2,4,6-Tribromophenol	86.8%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB3-1.5-2-041911
SAMPLE

Lab Sample ID: SS71K
 LIMS ID: 11-8664
 Matrix: Soil
 Data Release Authorized: *WV*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 19:34
 Instrument/Analyst: ECD1/AAR

Sample Amount: 9.09 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 10.3%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.9	< 6.9 U
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	68.8%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1



Sample ID: LL-SB3-2-4-041911
SAMPLE

Lab Sample ID: SS71L
LIMS ID: 11-8665
Matrix: Soil
Data Release Authorized: *YMN*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 20:10
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.32 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.7	< 6.7 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	75.6%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB2-0-0.5-041911
SAMPLE

Lab Sample ID: SS71M
 LIMS ID: 11-8666
 Matrix: Soil
 Data Release Authorized: *mm*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 20:46
 Instrument/Analyst: ECD1/AAR

Sample Amount: 9.15 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 12.8%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.8	< 6.8 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	82.4%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB2-1.5-2-041911
SAMPLE

Lab Sample ID: SS71N
 LIMS ID: 11-8667
 Matrix: Soil
 Data Release Authorized: *mm*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 21:23
 Instrument/Analyst: ECD1/AAR

Sample Amount: 9.61 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 8.4%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.5	< 6.5 U
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	61.2%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB2-2-3.5-041911
SAMPLE

Lab Sample ID: SS710
 LIMS ID: 11-8668
 Matrix: Soil
 Data Release Authorized: *W*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 23:12
 Instrument/Analyst: ECD1/AAR

Sample Amount: 9.64 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 10.0%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.5	< 6.5 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	65.6%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB1-0-0.5-041911
SAMPLE

Lab Sample ID: SS71P
 LIMS ID: 11-8669
 Matrix: Soil
 Data Release Authorized: *mm*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 23:48
 Instrument/Analyst: ECD1/AAR

Sample Amount: 9.48 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 7.6%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.6	< 6.6 U

Reported in $\mu\text{g}/\text{kg}$ (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	66.8%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB1-0-0.5-041911-D
SAMPLE

Lab Sample ID: SS71Q
 LIMS ID: 11-8670
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/06/11 00:24
 Instrument/Analyst: ECD1/AAR

Sample Amount: 9.32 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 7.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.7	< 6.7 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	75.2%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: LL-SB1-1.5-2-041911

SAMPLE

Lab Sample ID: SS71R

LIMS ID: 11-8671

Matrix: Soil

Data Release Authorized: *MW*

Reported: 05/06/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Extracted: 04/27/11

Date Analyzed: 05/06/11 01:00

Instrument/Analyst: ECD1/AAR

Sample Amount: 9.45 g-dry-wt

Final Extract Volume: 25 mL

Dilution Factor: 1.00

Percent Moisture: 8.3%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.6	< 6.6 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	66.4%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB1-2-4-041911
SAMPLE

Lab Sample ID: SS71S
 LIMS ID: 11-8672
 Matrix: Soil
 Data Release Authorized: *mw*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted: 04/27/11
 Date Analyzed: 05/06/11 01:37
 Instrument/Analyst: ECD1/AAR

Sample Amount: 9.33 g-dry-wt
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: 9.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.7	< 6.7 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	74.8%
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SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
LL-SB6-0-0.5-041811	84.4%	0
LL-SB6-1.5-2-041811	83.2%	0
LL-SB6-2-4-041811	80.4%	0
LL-SB5-0-0.5-041811	74.4%	0
LL-SB5-1.5-2-041811	79.6%	0
LL-SB5-2-4-041811	79.2%	0
LL-SB4-0-0.5-041911	89.6%	0
LL-SB4-1.5-2-041911	74.4%	0
MB-042711	73.6%	0
LCS-042711	66.0%	0
LCSD-042711	72.6%	0
LL-SB4-2-4-041911	76.8%	0
LL-SB4-2-4-041911 MS	76.8%	0
LL-SB4-2-4-041911 MSD	72.2%	0
LL-SB3-0-0.5-041911	86.8%	0
LL-SB3-1.5-2-041911	68.8%	0
LL-SB3-2-4-041911	75.6%	0
LL-SB2-0-0.5-041911	82.4%	0
LL-SB2-1.5-2-041911	61.2%	0
LL-SB2-2-3.5-041911	65.6%	0
LL-SB1-0-0.5-041911	66.8%	0
LL-SB1-0-0.5-041911-D	75.2%	0
LL-SB1-1.5-2-041911	66.4%	0
LL-SB1-2-4-041911	74.8%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol

(50-115)

(10-146)

Prep Method: SW3550B

Log Number Range: 11-8654 to 11-8672

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LL-SB4-2-4-041911
MS/MSD

Lab Sample ID: SS71I
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: *YMN*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted MS/MSD: 04/27/11
 Date Analyzed MS: 05/05/11 17:45
 MSD: 05/05/11 18:21
 Instrument/Analyst MS: ECD1/AAR
 MSD: ECD1/AAR
 Percent Moisture: 13.9%

Sample Amount MS: 8.64 g-dry-wt
 MSD: 8.69 g-dry-wt
 Final Extract Volume MS: 25 mL
 MSD: 25 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 7.14	62.9	72.3	87.0%	56.5	71.9	78.6%	10.7%

Results reported in µg/kg
 RPD calculated using sample concentrations per SW846.

Sample ID: LL-SB4-2-4-041911
MATRIX SPIKE

Lab Sample ID: SS71I
LIMS ID: 11-8662
Matrix: Soil
Data Release Authorized: *WVW*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 17:45
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.64 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.2	---
	Reported in $\mu\text{g}/\text{kg}$ (ppb)		
	Chlorophenol Surrogate Recovery		
	2,4,6-Tribromophenol		76.8%

Sample ID: LL-SB4-2-4-041911
MATRIX SPIKE DUP

Lab Sample ID: SS71I
LIMS ID: 11-8662
Matrix: Soil
Data Release Authorized: *mm*
Reported: 05/06/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Date Extracted: 04/27/11
Date Analyzed: 05/05/11 18:21
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.69 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.2	---
	Reported in $\mu\text{g}/\text{kg}$ (ppb)		
	Chlorophenol Surrogate Recovery		
	2,4,6-Tribromophenol	72.2%	



ORGANICS ANALYSIS DATA SHEET
 PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LCS-042711
 LCS/LCSD

Lab Sample ID: LCS-042711
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: *mm*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Extracted LCS/LCSD: 04/27/11
 Date Analyzed LCS: 05/05/11 09:16
 LCSD: 05/05/11 09:52
 Instrument/Analyst LCS: ECD1/AAR
 LCSD: ECD1/AAR

Sample Amount LCS: 10.0 g
 LCSD: 10.0 g
 Final Extract Volume LCS: 25 mL
 LCSD: 25 mL
 Dilution Factor LCS: 1.00
 LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	50.8	62.5	81.3%	52.4	62.5	83.8%	3.1%

Chlorophenols Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	66.0%	72.6%

Results reported in $\mu\text{g}/\text{kg}$
 RPD calculated using sample concentrations per SW846.

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

SS71MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

Lab Sample ID: SS71MBS1

Lab File ID: 0504A040

Matrix (soil/water) SOLID

Extraction: (SepF/Cont/Sonc) SW3550C

Sulfur Cleanup (Y/N) Y

Date Extracted: 04/27/11

Date Analyzed (1): 05/05/11

Date Analyzed (2): 05/05/11

Time Analyzed (1): 0840

Time Analyzed (2): 0840

Instrument ID (1): ECD1

Instrument ID (2): ECD1

GC Column (1): STX CLP1 ID: 0.53(mm)

GC Column (2): STX CLP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	SS71LCSS1	SS71LCSS1	05/05/11	05/05/11
02	SS71LCSDS1	SS71LCSDS1	05/05/11	05/05/11
03	LL-SB6-0-0.5	SS71A	05/05/11	05/05/11
04	LL-SB6-1.5-2	SS71B	05/05/11	05/05/11
05	LL-SB6-2-4-0	SS71C	05/05/11	05/05/11
06	LL-SB5-0-0.5	SS71D	05/05/11	05/05/11
07	LL-SB5-1.5-2	SS71E	05/05/11	05/05/11
08	LL-SB5-2-4-0	SS71F	05/05/11	05/05/11
09	LL-SB4-0-0.5	SS71G	05/05/11	05/05/11
10	LL-SB4-1.5-2	SS71H	05/05/11	05/05/11
11	LL-SB4-2-4-0	SS71I	05/05/11	05/05/11
12	LL-SB4-2-4-0	SS71IMS	05/05/11	05/05/11
13	LL-SB4-2-4-0	SS71IMSD	05/05/11	05/05/11
14	LL-SB3-0-0.5	SS71J	05/05/11	05/05/11
15	LL-SB3-1.5-2	SS71K	05/05/11	05/05/11
16	LL-SB3-2-4-0	SS71L	05/05/11	05/05/11
17	LL-SB2-0-0.5	SS71M	05/05/11	05/05/11
18	LL-SB2-1.5-2	SS71N	05/05/11	05/05/11
19	LL-SB2-2-3.5	SS71O	05/05/11	05/05/11
20	LL-SB1-0-0.5	SS71P	05/05/11	05/06/11
21	LL-SB1-0-0.5	SS71P	05/05/11	05/06/11
22	LL-SB1-1.5-2	SS71R	05/06/11	05/06/11
23	LL-SB1-2-4-0	SS71S	05/06/11	05/06/11

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MB-042711
METHOD BLANK

Lab Sample ID: MB-042711
 LIMS ID: 11-8662
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 05/06/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL
 Date Sampled: NA
 Date Received: NA

Date Extracted: 04/27/11
 Date Analyzed: 05/05/11 08:40
 Instrument/Analyst: ECD1/AAR

Sample Amount: 10.0 g
 Final Extract Volume: 25 mL
 Dilution Factor: 1.00
 Percent Moisture: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.2	< 6.2 U
Reported in µg/kg (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	73.6%	

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.93	21.07
2,4,6-Trichloropheno	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.03	13.17
2,3,6-Trichloropheno	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.03	14.17
2,4,5-Trichloropheno	15.85	15.85	15.85	15.84	15.85	15.85	15.84	15.78	15.91
2,3,4-Trichloropheno	17.36	17.35	17.35	17.35	17.35	17.35	17.35	17.28	17.42
2,3,5,6-Tetrachlorop	17.16	17.15	17.15	17.15	17.15	17.15	17.15	17.08	17.22
2,3,4,5-Tetrachlorop	20.16	20.16	20.16	20.15	20.15	20.16	20.16	20.08	20.22
2,4-Dichlorophenol	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.48	12.62
2,4,6-Tribromophenol	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.53	18.67

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.90	23.04
2,4,6-Trichloropheno	14.31	14.31	14.31	14.31	14.31	14.31	14.31	14.24	14.38
2,3,6-Trichloropheno	15.56	15.56	15.56	15.56	15.56	15.56	15.56	15.49	15.63
2,4,5-Trichloropheno	17.48	17.47	17.47	17.47	17.47	17.47	17.47	17.40	17.54
2,3,4-Trichloropheno	19.03	19.02	19.02	19.02	19.02	19.02	19.02	18.95	19.09
2,3,5,6-Tetrachlorop	18.82	18.81	18.81	18.81	18.81	18.81	18.81	18.74	18.88
2,3,4,5-Tetrachlorop	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.01	22.15
2,4-Dichlorophenol	13.82	13.82	13.82	13.82	13.82	13.82	13.82	13.75	13.89
2,4,6-Tribromophenol	20.94	20.94	20.94	20.94	20.94	20.94	20.94	20.87	21.01

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	24557	22356	20781	19124	17785	16292	15.1	A
2,4,6-Trichlorophenol	15281	13835	12795	11181	10412	9532	17.9	A
2,3,6-Trichlorophenol	14259	12818	11863	10765	9925	9085	16.7	A
2,4,5-Trichlorophenol	12140	8082	7421	6534	5905	5130	0.9996	Q
2,3,4-Trichlorophenol	10565	9519	8778	7811	7138	6322	18.8	A
2,3,5,6-Tetrachloroph	20194	18565	17499	16125	15182	13876	13.7	A
2,3,4,5-Tetrachloroph	16824	14772	13475	11938	10977	9904	19.7	A
2,4-Dichlorophenol	1040	896	796	655	559	482	0.9992	Q
2,4,6-Tribromophenol	18340	16896	15885	15230	14566	13549	10.8	A
AVE RSD							19.4	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

- LVL 1: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A010.d
- LVL 2: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A011.d
- LVL 3: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A012.d
- LVL 4: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A009.d
- LVL 5: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A013.d
- LVL 6: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A014.d

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	35686	31408	28958	26156	24465	22293	17.4	A
2,4,6-Trichlorophenol	18173	16199	15364	13872	12302	11052	18.0	A
2,3,6-Trichlorophenol	17538	16304	15194	13812	12444	10948	17.1	A
2,4,5-Trichlorophenol	10375	9203	8375	7827	6888	5906	19.8	A
2,3,4-Trichlorophenol	13793	11382	10368	9080	8182	7194	0.9997	Q
2,3,5,6-Tetrachloroph	28198	24060	22545	20410	19063	17352	17.7	A
2,3,4,5-Tetrachloroph	21700	18848	16677	15352	13827	12342	0.9998	Q
2,4-Dichlorophenol	1124	962	835	702	594	505	0.9994	Q
2,4,6-Tribromophenol	26776	22121	21311	19850	18746	17341	15.7	A
AVE RSD							20.0	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

- LVL 1: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A010.d
- LVL 2: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A011.d
- LVL 3: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A012.d
- LVL 4: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A009.d
- LVL 5: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A013.d
- LVL 6: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A014.d

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/05/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0804

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	24.8	25.0	-0.8
2,4,6-Trichlorophenol	13.11	13.03	13.17	24.3	25.0	-2.8
2,3,6-Trichlorophenol	14.10	14.03	14.17	24.1	25.0	-3.6
2,4,5-Trichlorophenol	15.85	15.78	15.91	25.3	25.0	1.2
2,3,4-Trichlorophenol	17.36	17.28	17.42	24.2	25.0	-3.2
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	24.9	25.0	-0.4
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	24.1	25.0	-3.6
2,4-Dichlorophenol	12.56	12.48	12.62	268	250	7.2
2,4,6-Tribromophenol (surr)	18.60	18.53	18.67	25.2	25.0	0.8

AVERAGE %D = 2.6

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/05/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0804

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	24.7	25.0	-1.2
2,4,6-Trichlorophenol	14.32	14.24	14.38	24.0	25.0	-4.0
2,3,6-Trichlorophenol	15.56	15.49	15.63	23.6	25.0	-5.6
2,4,5-Trichlorophenol	17.48	17.40	17.54	24.1	25.0	-3.6
2,3,4-Trichlorophenol	19.03	18.95	19.09	25.8	25.0	3.2
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	24.2	25.0	-3.2
2,3,4,5-Tetrachlorophenol	22.09	22.01	22.15	26.0	25.0	4.0
2,4-Dichlorophenol	13.82	13.75	13.89	252	250	0.8
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	24.7	25.0	-1.2

AVERAGE %D = 3.0

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/05/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1519

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	25.4	25.0	1.6
2,4,6-Trichlorophenol	13.10	13.03	13.17	25.1	25.0	0.4
2,3,6-Trichlorophenol	14.10	14.03	14.17	25.0	25.0	0.0
2,4,5-Trichlorophenol	15.84	15.78	15.91	26.0	25.0	4.0
2,3,4-Trichlorophenol	17.35	17.28	17.42	24.3	25.0	-2.8
2,3,5,6-Tetrachlorophenol	17.15	17.08	17.22	25.4	25.0	1.6
2,3,4,5-Tetrachlorophenol	20.15	20.08	20.22	24.5	25.0	-2.0
2,4-Dichlorophenol	12.56	12.48	12.62	296	250	18.4
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	24.7	25.0	-1.2

AVERAGE %D = 3.6

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/05/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1519

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	24.0	25.0	-4.0
2,4,6-Trichlorophenol	14.31	14.24	14.38	24.8	25.0	-0.8
2,3,6-Trichlorophenol	15.56	15.49	15.63	24.2	25.0	-3.2
2,4,5-Trichlorophenol	17.47	17.40	17.54	24.6	25.0	-1.6
2,3,4-Trichlorophenol	19.02	18.95	19.09	26.0	25.0	4.0
2,3,5,6-Tetrachlorophenol	18.81	18.74	18.88	24.7	25.0	-1.2
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	24.8	25.0	-0.8
2,4-Dichlorophenol	13.82	13.75	13.89	259	250	3.6
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	24.7	25.0	-1.2

AVERAGE %D = 2.3

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/05/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2235

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	26.0	25.0	4.0
2,4,6-Trichlorophenol	13.10	13.03	13.17	25.9	25.0	3.6
2,3,6-Trichlorophenol	14.10	14.03	14.17	25.6	25.0	2.4
2,4,5-Trichlorophenol	15.85	15.78	15.91	27.4	25.0	9.6
2,3,4-Trichlorophenol	17.35	17.28	17.42	25.5	25.0	2.0
2,3,5,6-Tetrachlorophenol	17.15	17.08	17.22	26.6	25.0	6.4
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	24.5	25.0	-2.0
2,4-Dichlorophenol	12.56	12.48	12.62	307	250	22.8
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	26.5	25.0	6.0

AVERAGE %D = 6.5

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/05/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2235

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	26.3	25.0	5.2
2,4,6-Trichlorophenol	14.31	14.24	14.38	25.9	25.0	3.6
2,3,6-Trichlorophenol	15.56	15.49	15.63	25.5	25.0	2.0
2,4,5-Trichlorophenol	17.47	17.40	17.54	26.4	25.0	5.6
2,3,4-Trichlorophenol	19.02	18.95	19.09	27.8	25.0	11.2
2,3,5,6-Tetrachlorophenol	18.81	18.74	18.88	26.1	25.0	4.4
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	27.9	25.0	11.6
2,4-Dichlorophenol	13.82	13.75	13.89	26.9	25.0	7.6
2,4,6-Tribromophenol (surr)	20.94	20.87	21.01	26.3	25.0	5.2

AVERAGE %D = 6.3

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/06/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0249

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	27.0	25.0	8.0
2,4,6-Trichlorophenol	13.11	13.03	13.17	26.5	25.0	6.0
2,3,6-Trichlorophenol	14.10	14.03	14.17	26.3	25.0	5.2
2,4,5-Trichlorophenol	15.85	15.78	15.91	27.9	25.0	11.6
2,3,4-Trichlorophenol	17.36	17.28	17.42	26.0	25.0	4.0
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	27.1	25.0	8.4
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	25.4	25.0	1.6
2,4-Dichlorophenol	12.56	12.48	12.62	313	250	25.2
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	26.5	25.0	6.0

AVERAGE %D = 8.4

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SS71

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/06/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0249

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	26.9	25.0	7.6
2,4,6-Trichlorophenol	14.32	14.24	14.38	26.1	25.0	4.4
2,3,6-Trichlorophenol	15.56	15.49	15.63	26.1	25.0	4.4
2,4,5-Trichlorophenol	17.48	17.40	17.54	27.1	25.0	8.4
2,3,4-Trichlorophenol	19.03	18.95	19.09	28.7	25.0	14.8
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	26.7	25.0	6.8
2,3,4,5-Tetrachlorophenol	22.09	22.01	22.15	28.8	25.0	15.2
2,4-Dichlorophenol	13.83	13.75	13.89	275	250	10.0
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	27.1	25.0	8.4

AVERAGE %D = 8.9

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SS71 Project: LORA LAKE PARCEL
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 18.60					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	18.60	
02	PCPA	05/04/11	1432	18.60	
03	PCPB	05/04/11	1508	18.60	
04	PCPC	05/04/11	1544	18.60	
05	PCPE	05/04/11	1621	18.60	
06	PCPF	05/04/11	1657	18.60	
07	ZZZZZ	05/04/11	1733	18.60	
08	PCP CCAL	05/05/11	0804	18.60	
09	SS71MBS1	05/05/11	0840	18.60	
10	SS71LCSS1	05/05/11	0916	18.60	
11	SS71LCSDS1	05/05/11	0952	18.60	
12	ZZZZZ	05/05/11	1029	18.60	
13	LL-SB6-0-0.5	05/05/11	1105	18.60	
14	LL-SB6-1.5-2	05/05/11	1141	18.60	
15	LL-SB6-2-4-0	05/05/11	1218	18.60	
16	LL-SB5-0-0.5	05/05/11	1254	18.60	
17	LL-SB5-1.5-2	05/05/11	1330	18.60	
18	LL-SB5-2-4-0	05/05/11	1407	18.60	
19	ZZZZZ	05/05/11	1443	18.59	
20	PCP CCAL	05/05/11	1519	18.60	
21	LL-SB4-0-0.5	05/05/11	1556	18.59	
22	LL-SB4-1.5-2	05/05/11	1632	18.59	
23	LL-SB4-2-4-0	05/05/11	1708	18.59	
24	LL-SB4-2-4-0	05/05/11	1745	18.60	
25	LL-SB4-2-4-0	05/05/11	1821	18.60	
26	LL-SB3-0-0.5	05/05/11	1857	18.59	
27	LL-SB3-1.5-2	05/05/11	1934	18.60	
28	LL-SB3-2-4-0	05/05/11	2010	18.60	
29	LL-SB2-0-0.5	05/05/11	2046	18.60	
30	LL-SB2-1.5-2	05/05/11	2123	18.60	
31	ZZZZZ	05/05/11	2159	18.60	
32	PCP CCAL	05/05/11	2235	18.60	

QC LIMITS
 S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SS71 Project: LORA LAKE PARCEL
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 18.60					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
	=====	=====	=====	=====	=====
01	LL-SB2-2-3.5	SS71O	05/05/11	2312	18.60
02	LL-SB1-0-0.5	SS71P	05/05/11	2348	18.60
03	LL-SB1-0-0.5	SS71Q	05/06/11	0024	18.60
04	LL-SB1-1.5-2	SS71R	05/06/11	0100	18.60
05	LL-SB1-2-4-0	SS71S	05/06/11	0137	18.60
06	ZZZZZ	ZZZZZ	05/06/11	0213	18.60
07		PCP CCAL	05/06/11	0249	18.60

QC LIMITS
 S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SS71 Project: LORA LAKE PARCEL
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION				
S1 : 20.94				
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
=====				
01		PCPD	05/04/11	1356
02		PCPA	05/04/11	1432
03		PCPB	05/04/11	1508
04		PCPC	05/04/11	1544
05		PCPE	05/04/11	1621
06		PCPF	05/04/11	1657
07	ZZZZZ	ZZZZZ	05/04/11	1733
08		PCP CCAL	05/05/11	0804
09	SS71MBS1	SS71MBS1	05/05/11	0840
10	SS71LCSS1	SS71LCSS1	05/05/11	0916
11	SS71LCSDS1	SS71LCSDS1	05/05/11	0952
12	ZZZZZ	ZZZZZ	05/05/11	1029
13	LL-SB6-0-0.5	SS71A	05/05/11	1105
14	LL-SB6-1.5-2	SS71B	05/05/11	1141
15	LL-SB6-2-4-0	SS71C	05/05/11	1218
16	LL-SB5-0-0.5	SS71D	05/05/11	1254
17	LL-SB5-1.5-2	SS71E	05/05/11	1330
18	LL-SB5-2-4-0	SS71F	05/05/11	1407
19	ZZZZZ	ZZZZZ	05/05/11	1443
20		PCP CCAL	05/05/11	1519
21	LL-SB4-0-0.5	SS71G	05/05/11	1556
22	LL-SB4-1.5-2	SS71H	05/05/11	1632
23	LL-SB4-2-4-0	SS71I	05/05/11	1708
24	LL-SB4-2-4-0	SS71IMS	05/05/11	1745
25	LL-SB4-2-4-0	SS71IMSD	05/05/11	1821
26	LL-SB3-0-0.5	SS71J	05/05/11	1857
27	LL-SB3-1.5-2	SS71K	05/05/11	1934
28	LL-SB3-2-4-0	SS71L	05/05/11	2010
29	LL-SB2-0-0.5	SS71M	05/05/11	2046
30	LL-SB2-1.5-2	SS71N	05/05/11	2123
31	ZZZZZ	ZZZZZ	05/05/11	2159
32		PCP CCAL	05/05/11	2235

QC LIMITS
 S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SS71 Project: LORA LAKE PARCEL
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.94					
	CLIENT	LAB	DATE	TIME	S1
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #
	=====	=====	=====	=====	=====
01	LL-SB2-2-3.5	SS71O	05/05/11	2312	20.94
02	LL-SB1-0-0.5	SS71P	05/05/11	2348	20.94
03	LL-SB1-0-0.5	SS71Q	05/06/11	0024	20.94
04	LL-SB1-1.5-2	SS71R	05/06/11	0100	20.94
05	LL-SB1-2-4-0	SS71S	05/06/11	0137	20.94
06	ZZZZZ	ZZZZZ	05/06/11	0213	20.94
07		PCP CCAL	05/06/11	0249	20.94

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.


**TPHD Analysis
Report and Summary QC Forms**

ARI Job ID: SS71

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 2
Matrix: Soil

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL


Data Release Authorized: 
Reported: 04/26/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SS71A 11-8654	LL-SB6-0-0.5-041811 HC ID: MOTOR OIL	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	< 6.0 U 49 87.3%
SS71B 11-8655	LL-SB6-1.5-2-041811 HC ID: ---	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 11	< 5.7 U < 11 U 88.8%
SS71C 11-8656	LL-SB6-2-4-041811 HC ID: ---	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 78.4%
SS71D 11-8657	LL-SB5-0-0.5-041811 HC ID: DRO/MOTOR OIL	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	7.0 14	13 150 79.3%
SS71E 11-8658	LL-SB5-1.5-2-041811 HC ID: MOTOR OIL	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 11	< 5.7 U 22 88.2%
SS71F 11-8659	LL-SB5-2-4-041811 HC ID: MOTOR OIL	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.1 12	< 6.1 U 17 82.9%
SS71G 11-8660	LL-SB4-0-0.5-041911 HC ID: DRO/MOTOR OIL	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	6.0 12	6.1 28 72.4%
SS71H 11-8661	LL-SB4-1.5-2-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 93.2%
MB-042211 11-8662	Method Blank HC ID: ---	04/22/11	04/25/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.0 10	< 5.0 U < 10 U 90.8%
SS71I 11-8662	LL-SB4-2-4-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.8 12	< 5.8 U < 12 U 91.1%
SS71J 11-8663	LL-SB3-0-0.5-041911 HC ID: MOTOR OIL	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 12	< 5.7 U 16 89.9%
SS71K 11-8664	LL-SB3-1.5-2-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 92.2%
SS71L 11-8665	LL-SB3-2-4-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 94.9%

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 2 of 2
Matrix: Soil

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

Data Release Authorized: 
Reported: 04/26/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SS71M 11-8666	LL-SB2-0-0.5-041911 HC ID: MOTOR OIL	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.7 11	< 5.7 U 17 92.5%
SS71N 11-8667	LL-SB2-1.5-2-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U < 11 U 94.0%
SS71O 11-8668	LL-SB2-2-3.5-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.6 11	< 5.6 U < 11 U 95.9%
SS71P 11-8669	LL-SB1-0-0.5-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U < 11 U 96.1%
SS71Q 11-8670	LL-SB1-0-0.5-041911-D04 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U < 11 U 96.4%
SS71R 11-8671	LL-SB1-1.5-2-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.4 11	< 5.4 U 18 95.6%
SS71S 11-8672	LL-SB1-2-4-041911 HC ID: ---	04/22/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	5.5 11	< 5.5 U < 11 U 82.2%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
LL-SB6-0-0.5-04181	87.3%	0
LL-SB6-1.5-2-04181	88.8%	0
LL-SB6-2-4-041811	78.4%	0
LL-SB5-0-0.5-04181	79.3%	0
LL-SB5-1.5-2-04181	88.2%	0
LL-SB5-2-4-041811	82.9%	0
LL-SB4-0-0.5-04191	72.4%	0
LL-SB4-1.5-2-04191	93.2%	0
MB-042211	90.8%	0
LCS-042211	89.2%	0
LL-SB4-2-4-041911	91.1%	0
LL-SB4-2-4-041911 MS	88.6%	0
LL-SB4-2-4-041911 MSD	91.2%	0
LL-SB3-0-0.5-04191	89.9%	0
LL-SB3-1.5-2-04191	92.2%	0
LL-SB3-2-4-041911	94.9%	0
LL-SB2-0-0.5-04191	92.5%	0
LL-SB2-1.5-2-04191	94.0%	0
LL-SB2-2-3.5-04191	95.9%	0
LL-SB1-0-0.5-04191	96.1%	0
LL-SB1-0-0.5-04191	96.4%	0
LL-SB1-1.5-2-04191	95.6%	0
LL-SB1-2-4-041911	82.2%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(59-134)

(43-137)

Prep Method: SW3546
Log Number Range: 11-8654 to 11-8672

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LL-SB4-2-4-041911

Page 1 of 1

MS/MSD

Lab Sample ID: SS711

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *AS*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Date Extracted MS/MSD: 04/22/11

Sample Amount MS: 8.67 g-dry-wt

MSD: 8.64 g-dry-wt

Date Analyzed MS: 04/26/11 04:15

Final Extract Volume MS: 1.0 mL

MSD: 04/26/11 04:38

MSD: 1.0 mL

Instrument/Analyst MS: FID/AAR

Dilution Factor MS: 1.0

MSD: FID/AAR

MSD: 1.0

Percent Moisture: 13.9%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 5.8	138	173	79.8%	147	174	84.5%	6.3%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	88.6%	91.2%

Results reported in mg/kg

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-042211

Page 1 of 1

LAB CONTROL

Lab Sample ID: LCS-042211

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8662

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *AS*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Date Extracted: 04/22/11

Sample Amount: 10.0 g

Date Analyzed: 04/25/11 17:12

Final Extract Volume: 1.0 mL

Instrument/Analyst: FID/AAR

Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	135	150	90.0%

TPHD Surrogate Recovery

o-Terphenyl	89.2%
-------------	-------

Results reported in mg/kg

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Soil
Date Received: 04/19/11

ARI Job: SS71
Project: Lora Lake Parcel
POS-LL

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
11-8654-SS71A	LL-SB6-0-0.5-041811	18.27 g	1.00 mL	D	04/22/11
11-8655-SS71B	LL-SB6-1.5-2-041811	18.82 g	1.00 mL	D	04/22/11
11-8656-SS71C	LL-SB6-2-4-041811	8.91 g	1.00 mL	D	04/22/11
11-8657-SS71D	LL-SB5-0-0.5-041811	17.15 g	1.00 mL	D	04/22/11
11-8658-SS71E	LL-SB5-1.5-2-041811	18.75 g	1.00 mL	D	04/22/11
11-8659-SS71F	LL-SB5-2-4-041811	8.15 g	1.00 mL	D	04/22/11
11-8660-SS71G	LL-SB4-0-0.5-041911	18.32 g	1.00 mL	D	04/22/11
11-8661-SS71H	LL-SB4-1.5-2-041911	18.91 g	1.00 mL	D	04/22/11
11-8662-042211MB1	Method Blank	10.0 g	1.00 mL	-	04/22/11
11-8662-042211LCS1	Lab Control	10.0 g	1.00 mL	-	04/22/11
11-8662-SS71I	LL-SB4-2-4-041911	8.63 g	1.00 mL	D	04/22/11
11-8662-SS71IMS	LL-SB4-2-4-041911	8.67 g	1.00 mL	D	04/22/11
11-8662-SS71IMSD	LL-SB4-2-4-041911	8.64 g	1.00 mL	D	04/22/11
11-8663-SS71J	LL-SB3-0-0.5-041911	18.73 g	1.00 mL	D	04/22/11
11-8664-SS71K	LL-SB3-1.5-2-041911	19.00 g	1.00 mL	D	04/22/11
11-8665-SS71L	LL-SB3-2-4-041911	8.96 g	1.00 mL	D	04/22/11
11-8666-SS71M	LL-SB2-0-0.5-041911	18.78 g	1.00 mL	D	04/22/11
11-8667-SS71N	LL-SB2-1.5-2-041911	19.19 g	1.00 mL	D	04/22/11
11-8668-SS71O	LL-SB2-2-3.5-041911	19.00 g	1.00 mL	D	04/22/11
11-8669-SS71P	LL-SB1-0-0.5-041911	19.26 g	1.00 mL	D	04/22/11
11-8670-SS71Q	LL-SB1-0-0.5-041911	19.32 g	1.00 mL	D	04/22/11
11-8671-SS71R	LL-SB1-1.5-2-041911	19.19 g	1.00 mL	D	04/22/11
11-8672-SS71S	LL-SB1-2-4-041911	9.11 g	1.00 mL	D	04/22/11

Basis: D=Dry Weight W=As Received
Diesel Extraction Report

SS71 : 00189

4
TPH METHOD BLANK SUMMARY

BLANK NO.

SS71MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71

Project No.: LORA LAKE

Date Extracted: 04/22/11

Matrix: SOLID

Date Analyzed : 04/25/11

Instrument ID : FID4A

Time Analyzed : 1648


THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	SS71LCSS1	SS71LCSS1	04/25/11
02	LL-SB6-0-0.5	SS71A	04/25/11
03	LL-SB6-1.5-2	SS71B	04/25/11
04	LL-SB6-2-4-0	SS71C	04/25/11
05	LL-SB5-0-0.5	SS71D	04/25/11
06	LL-SB5-1.5-2	SS71E	04/25/11
07	LL-SB5-2-4-0	SS71F	04/25/11
08	LL-SB4-0-0.5	SS71G	04/25/11
09	LL-SB4-1.5-2	SS71H	04/26/11
10	LL-SB4-2-4-0	SS71I	04/26/11
11	LL-SB4-2-4-0	SS71IMS	04/26/11
12	LL-SB4-2-4-0	SS71IMSD	04/26/11
13	LL-SB3-0-0.5	SS71J	04/26/11
14	LL-SB3-1.5-2	SS71K	04/26/11
15	LL-SB3-2-4-0	SS71L	04/26/11
16	LL-SB2-0-0.5	SS71M	04/26/11
17	LL-SB2-1.5-2	SS71N	04/26/11
18	LL-SB2-2-3.5	SS71O	04/26/11
19	LL-SB1-0-0.5	SS71P	04/26/11
20	LL-SB1-0-0.5	SS71Q	04/26/11
21	LL-SB1-1.5-2	SS71R	04/26/11
22	LL-SB1-2-4-0	SS71S	04/26/11
23			
24			
25			
26			
27			
28			
29			
30			

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

Data Release Authorized: 
Reported: 04/26/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-042311 11-8673	Method Blank HC ID: ---	04/23/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 98.2%
SS71T 11-8673	LL-ER-041911 HC ID: ---	04/23/11	04/26/11 FID4A	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 97.9%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL

<u>Client ID</u>	<u>OTER</u>	<u>TOT</u>	<u>OUT</u>
MB-042311	98.2%	0	
LCS-042311	88.7%	0	
LCS-042311	89.6%	0	
LL-ER-041911	97.9%	0	

(OTER) = o-Terphenyl

LCS/MB LIMITS QC LIMITS

(53-123) (49-118)

Prep Method: SW3510C
Log Number Range: 11-8673 to 11-8673

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-042311

Page 1 of 1

LCS/LCSD

Lab Sample ID: LCS-042311

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8673

Project: Lora Lake Parcel

Matrix: Water

POS-LL

Data Release Authorized: *AS*

Date Sampled: 04/19/11

Reported: 04/26/11

Date Received: 04/19/11

Date Extracted LCS/LCSD: 04/23/11

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 04/26/11 11:21

Final Extract Volume LCS: 1.0 mL

LCSD: 04/26/11 11:45

LCSD: 1.0 mL

Instrument/Analyst LCS: FID/MS

Dilution Factor LCS: 1.00

LCSD: FID/MS

LCSD: 1.00

Range	Spike		LCS		Spike		LCSD		RPD
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	LCSD		
Diesel	2.66	3.00	88.7%	2.67	3.00	89.0%	0.4%		

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	88.7%	89.6%

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 04/19/11

ARI Job: SS71
Project: Lora Lake Parcel
POS-LL

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-8673-042311MB1	Method Blank	500 mL	1.00 mL	04/23/11
11-8673-042311LCS1	Lab Control	500 mL	1.00 mL	04/23/11
11-8673-042311LCSD1	Lab Control Dup	500 mL	1.00 mL	04/23/11
11-8673-SS71T	LL-ER-041911	500 mL	1.00 mL	04/23/11

4
TPH METHOD BLANK SUMMARY

BLANK NO.

SS71MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71,SS83

Project No.: LORA LAKE

Date Extracted: 04/23/11

Matrix: LIQUID

Date Analyzed : 04/26/11

Instrument ID : FID4A

Time Analyzed : 1057

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	SS71LCSW1	SS71LCSW1	04/26/11
02	SS71LCSDW1	SS71LCSDW1	04/26/11
03	LL-ER-041911	SS71T	04/26/11
04	DMA-RB-04201	SS83P	04/26/11
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
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6a
DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

Instrument: FID4A.I

Project: LORA LAKE PARCEL

Calibration Date: 21-MAR-2011

SDG No.: SS71

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	21003	19526	19442	19703	20026	19363	19844	3.1
AK Diesel	23452	21691	21713	21972	22362	21558	22125	3.2
OR Diesel	24212	21966	21934	22149	22514	21688	22410	4.1
Cal Diesel	23232	21603	21610	21876	22284	21486	22015	3.0
o-Terph	17994	17497	17465	17996	17929	15399	17380	5.8

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (4.517-8.324)
 AK Diesel C10-C25 (3.524-8.581)
 OR Diesel C10-C28 (3.524-9.347)
 Cal Diesel C10-C24 (3.524-8.324)

Calibration Files Analysis Time

0321a004.d	21-MAR-2011 15:42
0321a005.d	21-MAR-2011 16:06
0321a006.d	21-MAR-2011 16:30
0321a007.d	21-MAR-2011 16:54
0321a008.d	21-MAR-2011 17:17
0321a009.d	21-MAR-2011 17:41

6a
NW MOTOR OIL RANGE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

Instrument: FID4A.I

Project: LORA LAKE PARCEL

Calibration Date: 21-MAR-2011

SDG No.: SS71

Product Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil C24-C38	10649	11986	11403	11850	11711	10774	11395	5.0
Triac Surr	13444	18260	17392	17990	17972	16861	16986	10.6

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Calibration Files Analysis Time

0321a011.d	21-MAR-2011 18:28
0321a012.d	21-MAR-2011 18:52
0321a013.d	21-MAR-2011 19:16
0321a014.d	21-MAR-2011 19:39
0321a015.d	21-MAR-2011 20:03
0321a016.d	21-MAR-2011 20:27

in jetCurve macro

6a
JET A INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

Instrument: FID4A.I

Project: LORA LAKE PARCEL

Calibration Date: 13-APR-2011

SDG No.: SS71

Product Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
JET A	15185	15040	14996	14809	14596	14425	14842	1.9
o-Terph	20223	19513	19642	19176	18937	18599	19348	3.0

<- Indicates %RSD outside limits
Quant Ranges : JET A - C10-C18 (3.522-6.601)

Calibration Files Analysis Time

0413a007.d	13-APR-2011 06:59
0413a008.d	13-APR-2011 07:22
0413a009.d	13-APR-2011 07:46
0413a010.d	13-APR-2011 08:09
0413a011.d	13-APR-2011 08:33
0413a012.d	13-APR-2011 08:56

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 25-APR-2011 SDG No.: SS71
 Analysis Time: 16:00 Lab ID: DIESEL#1
 Instrument: FID4A.I Lab File Name: 0425a004.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	4740504	238.9	250	-4.4
AK102 (C10-C25)	5255956	237.6	250	-5.0
Terphenyl	768339	39.7	45	-11.8

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 25-APR-2011 SDG No.: SS71
 Analysis Time: 16:24 Lab ID: MOIL#1
 Instrument: FID4A.I Lab File Name: 0425a005.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	5426739	476.2	500	-4.8
AK103 (C25-C36)	4831635	700.0	500	40.0
CRUDE (Tol-C40)	6463921	855.8	500	71.2
n-Triacontane	794463	46.8	45	3.9

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 25-APR-2011 SDG No.: SS71
 Analysis Time: 20:46 Lab ID: DIESEL#2
 Instrument: FID4A.I Lab File Name: 0425a016.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5127204	258.4	250	3.4
AK102 (C10-C25)	5685630	257.0	250	2.8
Terphenyl	873242	45.1	45	0.3

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 25-APR-2011 SDG No.: SS71
 Analysis Time: 21:09 Lab ID: MOIL#2
 Instrument: FID4A.I Lab File Name: 0425a017.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	5278245	463.2	500	-7.4
AK103 (C25-C36)	4792754	694.4	500	38.9
CRUDE (Tol-C40)	6303824	834.6	500	66.9
n-Triacontane	846155	49.8	45	10.7

<-

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 26-APR-2011 SDG No.: SS71
 Analysis Time: 02:40 Lab ID: DIESEL#3
 Instrument: FID4A.I Lab File Name: 0425a031.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5315228	267.9	250	7.1
AK102 (C10-C25)	5888067	266.1	250	6.5
Terphenyl	893334	46.2	45	2.6

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 21-MAR-2011

Project: LORA LAKE

CCal Date: 26-APR-2011

SDG No.: SS71

Analysis Time: 03:04

Lab ID: MOIL#3

Instrument: FID4A.I

Lab File Name: 0425a032.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	5077825	445.6	500	-10.9
AK103 (C25-C36)	4585234	664.3	500	32.9
CRUDE (Tol-C40)	6077447	804.7	500	60.9
n-Triacontane	831206	48.9	45	8.7

<-

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.	Client: FLOYD-SNIDER
ICal Date: 21-MAR-2011	Project: LORA LAKE
CCal Date: 26-APR-2011	SDG No.: SS71
Analysis Time: 07:24	Lab ID: DIESEL#4
Instrument: FID4A.I	Lab File Name: 0425a043.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5372362	270.7	250	8.3
AK102 (C10-C25)	5941594	268.5	250	7.4
Terphenyl	939527	48.6	45	7.9

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 26-APR-2011 SDG No.: SS71
 Analysis Time: 07:48 Lab ID: MOIL#4
 Instrument: FID4A.I Lab File Name: 0425a044.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	5187360	455.2	500	-9.0
AK103 (C25-C36)	4735049	686.0	500	37.2
CRUDE (Tol-C40)	6152100	814.6	500	62.9
n-Triacontane	836191	49.2	45	9.4

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 26-APR-2011 SDG No.: SS71
 Analysis Time: 08:35 Lab ID: DIESEL#5
 Instrument: FID4A.I Lab File Name: 0425a046.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5407190	272.5	250	9.0
AK102 (C10-C25)	5995517	271.0	250	8.4
Terphenyl	925551	47.8	45	6.3

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 21-MAR-2011

Project: LORA LAKE

CCal Date: 26-APR-2011

SDG No.: SS71

Analysis Time: 08:59

Lab ID: MOIL#5

Instrument: FID4A.I

Lab File Name: 0425a047.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	5294572	464.6	500	-7.1
AK103 (C25-C36)	4775780	691.9	500	38.4
CRUDE (Tol-C40)	6310109	835.5	500	67.1
n-Triacontane	844840	49.7	45	10.5

<-

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
ICal Date: 21-MAR-2011 Project: LORA LAKE
CCal Date: 26-APR-2011 SDG No.: SS71
Analysis Time: 13:21 Lab ID: DIESEL#6
Instrument: FID4A.I Lab File Name: 0425a058.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	4977888	250.9	250	0.3
AK102 (C10-C25)	5531698	250.0	250	0.0
Terphenyl	835128	43.2	45	-4.1

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD-SNIDER
 ICal Date: 21-MAR-2011 Project: LORA LAKE
 CCal Date: 26-APR-2011 SDG No.: SS71
 Analysis Time: 13:45 Lab ID: MOIL#6
 Instrument: FID4A.I Lab File Name: 0425a059.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	5136792	450.8	500	-9.8
AK103 (C25-C36)	4641896	672.5	500	34.5
CRUDE (Tol-C40)	6158979	815.5	500	63.1
n-Triacontane	823940	48.5	45	7.8

<-

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD-SNIDER

ICal Date: 21-MAR-2011

Project: LORA LAKE

CCal Date: 26-APR-2011

SDG No.: SS71,SS83

Analysis Time: 13:45

Lab ID: MOIL#6

Instrument: FID4A.I

Lab File Name: 0425a059.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil (C24-C38)	5136792	450.8	500	-9.8
AK103 (C25-C36)	4641896	672.5	500	34.5
CRUDE (Tol-C40)	6158979	815.5	500	63.1
n-Triacontane	823940	48.5	45	7.8

<-

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71

Project: LORA LAKE

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 04/25/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.76	TRIAIC: 9.88		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAIC RT #
01	ZZZZZ	04/25/11	1449	6.77	9.90
02	RT	04/25/11	1512	6.76	9.88
03	IB	04/25/11	1536	6.76	9.88
04	LORA LAKE	04/25/11	1600	6.76	9.87
05	LORA LAKE	04/25/11	1624	6.75	9.89
06	SS71MBS1	04/25/11	1648	6.76	9.88
07	SS71LCSS1	04/25/11	1712	6.77	9.88
08	ZZZZZ	04/25/11	1736	6.76	9.88
09	LL-SB6-0-0.5	04/25/11	1759	6.76	9.88
10	LL-SB6-1.5-2	04/25/11	1823	6.76	9.88
11	LL-SB6-2-4-0	04/25/11	1847	6.76	9.88
12	LL-SB5-0-0.5	04/25/11	1911	6.76	9.88
13	LL-SB5-1.5-2	04/25/11	1935	6.76	9.88
14	LL-SB5-2-4-0	04/25/11	1958	6.76	9.88
15	LL-SB4-0-0.5	04/25/11	2022	6.76	9.88
16	LORA LAKE	04/25/11	2046	6.76	9.89
17	LORA LAKE	04/25/11	2109	6.75	9.88
18	ZZZZZ	04/25/11	2133	6.76	9.88
19	ZZZZZ	04/25/11	2157	6.76	9.88
20	ZZZZZ	04/25/11	2220	6.77	9.88
21	ZZZZZ	04/25/11	2244	6.76	9.88
22	ZZZZZ	04/26/11	0018	6.76	9.88
23	ZZZZZ	04/26/11	0042	6.76	9.88
24	ZZZZZ	04/26/11	0106	6.76	9.88
25	ZZZZZ	04/26/11	0130	6.77	9.88
26	ZZZZZ	04/26/11	0153	6.77	9.88
27	ZZZZZ	04/26/11	0217	6.76	9.88
28	LORA LAKE	04/26/11	0240	6.76	9.88
29	LORA LAKE	04/26/11	0304	6.77	9.89
30	LL-SB4-1.5-2	04/26/11	0327	6.76	9.88
31	LL-SB4-2-4-0	04/26/11	0351	6.76	9.87
32	LL-SB4-2-4-0	04/26/11	0415	6.77	9.87

QC LIMITS
 TERPH = o-terph (+/- 0.05 MINUTES)
 TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71

Project: LORA LAKE

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 04/25/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD						
		TERPH: 6.76	TRIAIC: 9.88			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAIC RT #	
01	LL-SB4-2-4-0	SS71IMSD	04/26/11	0438	6.77	9.88
02	LL-SB3-0-0.5	SS71J	04/26/11	0502	6.76	9.88
03	LL-SB3-1.5-2	SS71K	04/26/11	0526	6.76	9.88
04	LL-SB3-2-4-0	SS71L	04/26/11	0549	6.76	9.88
05	LL-SB2-0-0.5	SS71M	04/26/11	0613	6.76	9.88
06	LL-SB2-1.5-2	SS71N	04/26/11	0637	6.76	9.88
07	LL-SB2-2-3.5	SS71O	04/26/11	0700	6.76	9.88
08	LORA LAKE	DIESEL#4	04/26/11	0724	6.76	9.88
09	LORA LAKE	MOIL#4	04/26/11	0748	6.75	9.88
10	ZZZZZ	ZZZZZ	04/26/11	0811	6.75	9.86
11	LORA LAKE	DIESEL#5	04/26/11	0835	6.76	9.88
12	LORA LAKE	MOIL#5	04/26/11	0859	6.77	9.88
13	LL-SB1-0-0.5	SS71P	04/26/11	0922	6.76	9.87
14	LL-SB1-0-0.5	SS71Q	04/26/11	0946	6.76	9.87
15	LL-SB1-1.5-2	SS71R	04/26/11	1010	6.76	9.88
16	LL-SB1-2-4-0	SS71S	04/26/11	1033	6.76	9.87
17	ZZZZZ	ZZZZZ	04/26/11	1057	6.76	9.88
18	ZZZZZ	ZZZZZ	04/26/11	1121	6.77	9.88
19	ZZZZZ	ZZZZZ	04/26/11	1145	6.77	9.87
20	ZZZZZ	ZZZZZ	04/26/11	1209	6.76	9.88
21	ZZZZZ	ZZZZZ	04/26/11	1233	6.76	9.88
22	ZZZZZ	ZZZZZ	04/26/11	1257	6.76	9.88
23	LORA LAKE	DIESEL#6	04/26/11	1321	6.76	9.89
24	LORA LAKE	MOIL#6	04/26/11	1345	6.77	9.88
25	ZZZZZ	ZZZZZ	04/26/11	1409	6.77	9.88
26	ZZZZZ	ZZZZZ	04/26/11	2308	6.75	9.86
27	ZZZZZ	ZZZZZ	04/26/11	2331	6.76	9.87
28	ZZZZZ	ZZZZZ	04/26/11	2355	6.76	9.88

TERPH = o-terph (QC LIMITS +/- 0.05 MINUTES)
 TRIAC = Triacon Surr (QC LIMITS +/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71

Project: LORA LAKE

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 03/21/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.77	TRIAc: 9.89		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAc RT #
01	RT	03/21/11	1455	6.77	9.89
02	IB	03/21/11	1519	6.77	9.89
03	DIESEL 50	03/21/11	1542	6.76	9.89
04	DIESEL 100	03/21/11	1606	6.76	9.90
05	DIESEL 250	03/21/11	1630	6.77	9.90
06	DIESEL 500	03/21/11	1654	6.78	9.90
07	DIESEL 1000	03/21/11	1717	6.79	9.89
08	DIESEL 2500	03/21/11	1741	6.82	9.89
09	DIESEL ICV	03/21/11	1805	6.77	9.89

TERPH = o-terph
TRIAc = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER
 SDG No.: SS71 Project: LORA LAKE
 Instrument ID: FID4A GC Column: RTX-1
 Run Date: 03/21/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
 IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.77 TRIAC: 9.89			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	03/21/11	1455	6.77	9.89
02	IB	03/21/11	1519	6.77	9.89
03	MOIL 100	03/21/11	1828	6.76	9.87
04	MOIL 250	03/21/11	1852	6.76	9.88
05	MOIL 500	03/21/11	1916	6.76	9.89
06	MOIL 1000	03/21/11	1939	6.78	9.91
07	MOIL 2500	03/21/11	2003	6.76	9.94*
08	MOIL 5000	03/21/11	2027	6.76	9.98*
09	MOIL ICV	03/21/11	2050	6.76	9.89

QC LIMITS
 (+/- 0.05 MINUTES)
 (+/- 0.05 MINUTES)

TERPH = o-terph
 TRIAC = Triacon Surr

* Values outside of QC limits.
 *Peak shifting occurs when column plates are close to overloaded.
 Sample surrogates are spiked at 45ppm. n-Triacontane quants %10.6 RSD and
 meets Ical criteria. No further corrective action needed.

8
JET-A ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD-SNIDER
 SDG No.: SS71 Project: LORA LAKE
 Instrument ID: FID4A GC Column: RTX-1
 Run Date: 04/13/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
 IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.76	TRIAAC: 9.88		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAAC RT #
01	RT	04/13/11	0549	6.76	9.88
02	IB	04/13/11	0612	6.76	9.88
03	JET 50	04/13/11	0659	6.75	9.88
04	JET 100	04/13/11	0722	6.76	9.88
05	JET 250	04/13/11	0746	6.76	9.88
06	JET 500	04/13/11	0809	6.77	9.88
07	JET 1000	04/13/11	0833	6.78	9.88
08	JET 2500	04/13/11	0856	6.80	9.88

TERPH = o-terph QC LIMITS
 (+/- 0.05 MINUTES)
 TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71,SS83

Project: LORA LAKE

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 04/25/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD						
		TERPH: 6.76		TRIAAC: 9.88		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAAC RT #	
01	RT	04/25/11	1512	6.76	9.88	
02	IB	04/25/11	1536	6.76	9.88	
03	LORA LAKE	04/26/11	0835	6.76	9.88	
04	LORA LAKE	04/26/11	0859	6.77	9.88	
05	ZZZZZ	04/26/11	0922	6.76	9.87	
06	ZZZZZ	04/26/11	0946	6.76	9.87	
07	ZZZZZ	04/26/11	1010	6.76	9.88	
08	ZZZZZ	04/26/11	1033	6.76	9.87	
09	SS71MBW1	04/26/11	1057	6.76	9.88	
10	SS71LCSW1	04/26/11	1121	6.77	9.88	
11	SS71LCSDW1	04/26/11	1145	6.77	9.87	
12	ZZZZZ	04/26/11	1209	6.76	9.88	
13	LL-ER-041911	04/26/11	1233	6.76	9.88	
14	DMA-RB-04201	04/26/11	1257	6.76	9.88	
15	LORA LAKE	04/26/11	1321	6.76	9.89	
16	LORA LAKE	04/26/11	1345	6.77	9.88	

TERPH = o-terph
TRIAAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71,SS83

Project: LORA LAKE

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 03/21/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.77	TRIAAC: 9.89		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAAC RT #
01	RT	03/21/11	1455	6.77	9.89
02	IB	03/21/11	1519	6.77	9.89
03	DIESEL 50	03/21/11	1542	6.76	9.89
04	DIESEL 100	03/21/11	1606	6.76	9.90
05	DIESEL 250	03/21/11	1630	6.77	9.90
06	DIESEL 500	03/21/11	1654	6.78	9.90
07	DIESEL 1000	03/21/11	1717	6.79	9.89
08	DIESEL 2500	03/21/11	1741	6.82	9.89
09	DIESEL ICV	03/21/11	1805	6.77	9.89

TERPH = o-terph
TRIAAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71,SS83

Project: LORA LAKE

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 03/21/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.77	TRIAC: 9.89		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01 RT	RT	03/21/11	1455	6.77	9.89
02 IB	IB	03/21/11	1519	6.77	9.89
03 MOIL 100	MOIL 100	03/21/11	1828	6.76	9.87
04 MOIL 250	MOIL 250	03/21/11	1852	6.76	9.88
05 MOIL 500	MOIL 500	03/21/11	1916	6.76	9.89
06 MOIL 1000	MOIL 1000	03/21/11	1939	6.78	9.91
07 MOIL 2500	MOIL 2500	03/21/11	2003	6.76	9.94*
08 MOIL 5000	MOIL 5000	03/21/11	2027	6.76	9.98*
09 MOIL ICV	MOIL ICV	03/21/11	2050	6.76	9.89

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

*Peak shifting occurs when column plates are close to overloaded.
Sample surrogates are spiked at 45ppm. n-Triacontane quants %10.6 RSD and
meets Ical criteria. No further corrective action needed.

8
JET-A ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD-SNIDER

SDG No.: SS71,SS83

Project: LORA LAKE

Instrument ID: FID4A

GC Column: RTX-1

Run Date: 04/13/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
		TERPH: 6.76	TRIAAC: 9.88		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAAC RT #
01	RT	04/13/11	0549	6.76	9.88
02	IB	04/13/11	0612	6.76	9.88
03	JET 50	04/13/11	0659	6.75	9.88
04	JET 100	04/13/11	0722	6.76	9.88
05	JET 250	04/13/11	0746	6.76	9.88
06	JET 500	04/13/11	0809	6.77	9.88
07	JET 1000	04/13/11	0833	6.78	9.88
08	JET 2500	04/13/11	0856	6.80	9.88

TERPH = o-terph
TRIAAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

**TPHG/BETX Analysis
Report and Summary QC Forms**

ARI Job ID: SS71

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LL-SB6-0-0.5-041811

SAMPLE

Lab Sample ID: SS71A

LIMS ID: 11-8654

Matrix: Soil

Data Release Authorized: *mm*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/18/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 09:11

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 69 mg-dry-wt

Percent Moisture: 17.6%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	36	< 36 U	
108-88-3	Toluene	36	< 36 U	
100-41-4	Ethylbenzene	36	< 36 U	
179601-23-1	m,p-Xylene	72	< 72 U	
95-47-6	o-Xylene	36	< 36 U	
	Gasoline Range Hydrocarbons	7.2	< 7.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	97.5%
Bromobenzene	95.6%

Gasoline Surrogate Recovery

Trifluorotoluene	97.8%
Bromobenzene	95.0%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LL-SB6-1.5-2-041811
SAMPLE

Lab Sample ID: SS71B
 LIMS ID: 11-8655
 Matrix: Soil
 Data Release Authorized: *WV*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 09:40
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 77 mg-dry-wt
 Percent Moisture: 12.2%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	32	< 32 U	
108-88-3	Toluene	32	< 32 U	
100-41-4	Ethylbenzene	32	< 32 U	
179601-23-1	m,p-Xylene	65	< 65 U	
95-47-6	o-Xylene	32	< 32 U	
	Gasoline Range Hydrocarbons	6.5	< 6.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.8%
Bromobenzene	93.9%

Gasoline Surrogate Recovery

Trifluorotoluene	95.5%
Bromobenzene	92.7%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LL-SB6-2-4-041811
SAMPLE

Lab Sample ID: SS71C
 LIMS ID: 11-8656
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 10:10
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 81 mg-dry-wt
 Percent Moisture: 11.0%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	31	< 31 U	
108-88-3	Toluene	31	< 31 U	
100-41-4	Ethylbenzene	31	< 31 U	
179601-23-1	m,p-Xylene	62	< 62 U	
95-47-6	o-Xylene	31	< 31 U	
	Gasoline Range Hydrocarbons	6.2	< 6.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.5%
Bromobenzene	96.4%

Gasoline Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	95.3%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1



Sample ID: LL-SB5-0-0.5-041811
SAMPLE

Lab Sample ID: SS71D

LIMS ID: 11-8657

Matrix: Soil

Data Release Authorized: *mmw*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/18/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 10:39

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 53 mg-dry-wt

Percent Moisture: 28.7%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	47	< 47 U	
108-88-3	Toluene	47	< 47 U	
100-41-4	Ethylbenzene	47	< 47 U	
179601-23-1	m,p-Xylene	95	< 95 U	
95-47-6	o-Xylene	47	< 47 U	
	Gasoline Range Hydrocarbons	9.5	< 9.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.6%
Bromobenzene	96.7%

Gasoline Surrogate Recovery

Trifluorotoluene	98.3%
Bromobenzene	95.1%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Sample ID: LL-SB5-1.5-2-041811
 SAMPLE

Lab Sample ID: SS71E
 LIMS ID: 11-8658
 Matrix: Soil
 Data Release Authorized: *mm*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/18/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 11:08
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 12.8%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	29	< 29 U	
108-88-3	Toluene	29	< 29 U	
100-41-4	Ethylbenzene	29	< 29 U	
179601-23-1	m,p-Xylene	58	< 58 U	
95-47-6	o-Xylene	29	< 29 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	---

BETX Surrogate Recovery

Trifluorotoluene	97.5%
Bromobenzene	97.5%

Gasoline Surrogate Recovery

Trifluorotoluene	97.7%
Bromobenzene	96.4%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LL-SB5-2-4-041811

SAMPLE

Lab Sample ID: SS71F

LIMS ID: 11-8659

Matrix: Soil

Data Release Authorized: *MW*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/18/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 11:37

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 72 mg-dry-wt

Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	35	< 35 U	
108-88-3	Toluene	35	< 35 U	
100-41-4	Ethylbenzene	35	< 35 U	
179601-23-1	m,p-Xylene	69	< 69 U	
95-47-6	o-Xylene	35	< 35 U	
	Gasoline Range Hydrocarbons	6.9	< 6.9 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.0%
Bromobenzene	97.6%

Gasoline Surrogate Recovery

Trifluorotoluene	97.5%
Bromobenzene	96.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LL-SB4-0-0.5-041911
SAMPLE

Lab Sample ID: SS71G

LIMS ID: 11-8660

Matrix: Soil

Data Release Authorized: *MMW*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 13:34

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 69 mg-dry-wt

Percent Moisture: 17.3%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	36	< 36 U	
108-88-3	Toluene	36	< 36 U	
100-41-4	Ethylbenzene	36	< 36 U	
179601-23-1	m,p-Xylene	72	< 72 U	
95-47-6	o-Xylene	36	< 36 U	
	Gasoline Range Hydrocarbons	7.2	< 7.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.9%
Bromobenzene	95.3%

Gasoline Surrogate Recovery

Trifluorotoluene	95.7%
Bromobenzene	93.2%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LL-SB4-1.5-2-041911
SAMPLE

Lab Sample ID: SS71H
 LIMS ID: 11-8661
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 14:03
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 89 mg-dry-wt
 Percent Moisture: 11.4%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	28	< 28 U	
108-88-3	Toluene	28	< 28 U	
100-41-4	Ethylbenzene	28	< 28 U	
179601-23-1	m,p-Xylene	56	< 56 U	
95-47-6	o-Xylene	28	< 28 U	
	Gasoline Range Hydrocarbons	5.6	< 5.6 U	---

BETX Surrogate Recovery

Trifluorotoluene	96.1%
Bromobenzene	98.7%

Gasoline Surrogate Recovery

Trifluorotoluene	97.4%
Bromobenzene	97.3%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LL-SB4-2-4-041911

SAMPLE

Lab Sample ID: SS71I

LIMS ID: 11-8662

Matrix: Soil

Data Release Authorized: *MW*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 14:32

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 85 mg-dry-wt

Percent Moisture: 13.9%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	29	< 29 U	
108-88-3	Toluene	29	< 29 U	
100-41-4	Ethylbenzene	29	< 29 U	
179601-23-1	m,p-Xylene	59	< 59 U	
95-47-6	o-Xylene	29	< 29 U	
	Gasoline Range Hydrocarbons	5.9	< 5.9 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.7%
Bromobenzene	94.8%

Gasoline Surrogate Recovery

Trifluorotoluene	95.5%
Bromobenzene	94.1%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

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Sample ID: LL-SB3-0-0.5-041911
SAMPLE

Lab Sample ID: SS71J

LIMS ID: 11-8663

Matrix: Soil

Data Release Authorized: *WWW*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 16:00

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 72 mg-dry-wt

Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	35	< 35 U	
108-88-3	Toluene	35	< 35 U	
100-41-4	Ethylbenzene	35	< 35 U	
179601-23-1	m,p-Xylene	70	< 70 U	
95-47-6	o-Xylene	35	< 35 U	
	Gasoline Range Hydrocarbons	7.0	< 7.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.3%
Bromobenzene	95.6%

Gasoline Surrogate Recovery

Trifluorotoluene	95.4%
Bromobenzene	95.6%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Sample ID: LL-SB3-1.5-2-041911
 SAMPLE

Lab Sample ID: SS71K
 LIMS ID: 11-8664
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 16:29
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 96 mg-dry-wt
 Percent Moisture: 10.3%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	26	< 26 U	
108-88-3	Toluene	26	< 26 U	
100-41-4	Ethylbenzene	26	< 26 U	
179601-23-1	m,p-Xylene	52	< 52 U	
95-47-6	o-Xylene	26	< 26 U	
	Gasoline Range Hydrocarbons	5.2	< 5.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.6%
Bromobenzene	97.8%

Gasoline Surrogate Recovery

Trifluorotoluene	94.9%
Bromobenzene	97.7%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LL-SB3-2-4-041911
SAMPLE

Lab Sample ID: SS71L
 LIMS ID: 11-8665
 Matrix: Soil
 Data Release Authorized: *mmw*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 16:58
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 98 mg-dry-wt
 Percent Moisture: 11.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	26	< 26 U	
108-88-3	Toluene	26	< 26 U	
100-41-4	Ethylbenzene	26	< 26 U	
179601-23-1	m,p-Xylene	51	< 51 U	
95-47-6	o-Xylene	26	< 26 U	
	Gasoline Range Hydrocarbons	5.1	< 5.1 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.5%
Bromobenzene	95.3%

Gasoline Surrogate Recovery

Trifluorotoluene	92.7%
Bromobenzene	95.4%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



Sample ID: LL-SB2-0-0.5-041911
 SAMPLE

Lab Sample ID: SS71M
 LIMS ID: 11-8666
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 17:27
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 86 mg-dry-wt
 Percent Moisture: 12.8%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	29	< 29 U	
108-88-3	Toluene	29	< 29 U	
100-41-4	Ethylbenzene	29	< 29 U	
179601-23-1	m,p-Xylene	58	< 58 U	
95-47-6	o-Xylene	29	< 29 U	
	Gasoline Range Hydrocarbons	5.8	< 5.8 U	---

BETX Surrogate Recovery

Trifluorotoluene	91.9%
Bromobenzene	95.8%

Gasoline Surrogate Recovery

Trifluorotoluene	94.8%
Bromobenzene	95.7%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: LL-SB2-1.5-2-041911
SAMPLE

Lab Sample ID: SS71N
 LIMS ID: 11-8667
 Matrix: Soil
 Data Release Authorized: *TWJ*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 17:57
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 81 mg-dry-wt
 Percent Moisture: 8.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	31	< 31 U
108-88-3	Toluene	31	< 31 U
100-41-4	Ethylbenzene	31	< 31 U
179601-23-1	m,p-Xylene	62	< 62 U
95-47-6	o-Xylene	31	< 31 U

Gasoline Range Hydrocarbons **6.2** **12** **GAS ID
GRO**

BETX Surrogate Recovery

Trifluorotoluene	91.2%
Bromobenzene	95.4%

Gasoline Surrogate Recovery

Trifluorotoluene	94.7%
Bromobenzene	95.0%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

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Sample ID: LL-SB2-2-3.5-041911

SAMPLE

Lab Sample ID: SS710

LIMS ID: 11-8668

Matrix: Soil

Data Release Authorized: *MW*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 19:53

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 99 mg-dry-wt

Percent Moisture: 10.0%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	25	< 25 U	
108-88-3	Toluene	25	< 25 U	
100-41-4	Ethylbenzene	25	< 25 U	
179601-23-1	m,p-Xylene	51	< 51 U	
95-47-6	o-Xylene	25	< 25 U	
	Gasoline Range Hydrocarbons	5.1	< 5.1 U	---

BETX Surrogate Recovery

Trifluorotoluene	87.4%
Bromobenzene	93.6%

Gasoline Surrogate Recovery

Trifluorotoluene	89.9%
Bromobenzene	94.1%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

Sample ID: LL-SB1-0-0.5-041911
 SAMPLE

Lab Sample ID: SS71P
 LIMS ID: 11-8669
 Matrix: Soil
 Data Release Authorized: *MMW*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 20:23
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 89 mg-dry-wt
 Percent Moisture: 7.6%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	28	< 28 U	
108-88-3	Toluene	28	< 28 U	
100-41-4	Ethylbenzene	28	< 28 U	
179601-23-1	m,p-Xylene	56	< 56 U	
95-47-6	o-Xylene	28	< 28 U	
	Gasoline Range Hydrocarbons	5.6	< 5.6 U	---
BETX Surrogate Recovery				
	Trifluorotoluene	88.0%		
	Bromobenzene	91.4%		
Gasoline Surrogate Recovery				
	Trifluorotoluene	89.7%		
	Bromobenzene	91.9%		

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
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Sample ID: LL-SB1-0-0.5-041911-D
SAMPLE

Lab Sample ID: SS71Q
 LIMS ID: 11-8670
 Matrix: Soil
 Data Release Authorized: *TWW*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 20:52
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 87 mg-dry-wt
 Percent Moisture: 7.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	29	< 29 U	
108-88-3	Toluene	29	< 29 U	
100-41-4	Ethylbenzene	29	< 29 U	
179601-23-1	m,p-Xylene	57	< 57 U	
95-47-6	o-Xylene	29	< 29 U	
	Gasoline Range Hydrocarbons	5.7	< 5.7 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.6%
Bromobenzene	95.4%

Gasoline Surrogate Recovery

Trifluorotoluene	92.0%
Bromobenzene	95.3%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.
 Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

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Sample ID: LL-SB1-1.5-2-041911
SAMPLE

Lab Sample ID: SS71R

LIMS ID: 11-8671

Matrix: Soil

Data Release Authorized: *NW*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Analyzed: 04/22/11 21:21

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 81 mg-dry-wt

Percent Moisture: 8.3%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	31	< 31 U	
108-88-3	Toluene	31	< 31 U	
100-41-4	Ethylbenzene	31	< 31 U	
179601-23-1	m,p-Xylene	62	< 62 U	
95-47-6	o-Xylene	31	< 31 U	
	Gasoline Range Hydrocarbons	6.2	< 6.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.6%
Bromobenzene	94.9%

Gasoline Surrogate Recovery

Trifluorotoluene	91.8%
Bromobenzene	94.0%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.



Lab Sample ID: SS71S
 LIMS ID: 11-8672
 Matrix: Soil
 Data Release Authorized: *MW*
 Reported: 04/25/11

QC Report No: SS71-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL
 Date Sampled: 04/19/11
 Date Received: 04/19/11

Date Analyzed: 04/22/11 21:50
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Sample Amount: 91 mg-dry-wt
 Percent Moisture: 9.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	27	< 27 U	
108-88-3	Toluene	27	< 27 U	
100-41-4	Ethylbenzene	27	< 27 U	
179601-23-1	m,p-Xylene	55	< 55 U	
95-47-6	o-Xylene	27	< 27 U	
	Gasoline Range Hydrocarbons	5.5	< 5.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	90.4%
Bromobenzene	95.3%

Gasoline Surrogate Recovery

Trifluorotoluene	92.6%
Bromobenzene	95.5%

BETX values reported in µg/kg (ppb)
 Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: SS71
Matrix: Soil

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL

<u>Client ID</u>	<u>BFB</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT</u>	<u>OUT</u>
MB-042211	NA	96.2%	94.7%	0	
LCS-042211	NA	100%	96.3%	0	
LCSD-042211	NA	100%	94.6%	0	
LL-SB6-0-0.5-041811	NA	97.8%	95.0%	0	
LL-SB6-1.5-2-041811	NA	95.5%	92.7%	0	
LL-SB6-2-4-041811	NA	97.6%	95.3%	0	
LL-SB5-0-0.5-041811	NA	98.3%	95.1%	0	
LL-SB5-1.5-2-041811	NA	97.7%	96.4%	0	
LL-SB5-2-4-041811	NA	97.5%	96.4%	0	
LL-SB4-0-0.5-041911	NA	95.7%	93.2%	0	
LL-SB4-1.5-2-041911	NA	97.4%	97.3%	0	
LL-SB4-2-4-041911	NA	95.5%	94.1%	0	
LL-SB4-2-4-041911 MSD	NA	98.5%	95.3%	0	
LL-SB4-2-4-041911	NA	102%	97.9%	0	
LL-SB3-0-0.5-041911	NA	95.4%	95.6%	0	
LL-SB3-1.5-2-041911	NA	94.9%	97.7%	0	
LL-SB3-2-4-041911	NA	92.7%	95.4%	0	
LL-SB2-0-0.5-041911	NA	94.8%	95.7%	0	
LL-SB2-1.5-2-041911	NA	94.7%	95.0%	0	
LL-SB2-2-3.5-041911	NA	89.9%	94.1%	0	
LL-SB1-0-0.5-041911	NA	89.7%	91.9%	0	
LL-SB1-0-0.5-041911-D	NA	92.0%	95.3%	0	
LL-SB1-1.5-2-041911	NA	91.8%	94.0%	0	
LL-SB1-2-4-041911	NA	92.6%	95.5%	0	

	LCS/MB LIMITS	QC LIMITS
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 11-8654 to 11-8672

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: SS71
Matrix: Soil

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-042211	94.5%	95.3%	0
LCS-042211	97.3%	97.4%	0
LCSD-042211	97.6%	96.2%	0
LL-SB6-0-0.5-041811	97.5%	95.6%	0
LL-SB6-1.5-2-041811	93.8%	93.9%	0
LL-SB6-2-4-041811	96.5%	96.4%	0
LL-SB5-0-0.5-041811	96.6%	96.7%	0
LL-SB5-1.5-2-041811	97.5%	97.5%	0
LL-SB5-2-4-041811	96.0%	97.6%	0
LL-SB4-0-0.5-041911	93.9%	95.3%	0
LL-SB4-1.5-2-041911	96.1%	98.7%	0
LL-SB4-2-4-041911	93.7%	94.8%	0
LL-SB4-2-4-041911 MS	95.0%	96.3%	0
LL-SB4-2-4-041911 MSD	98.9%	99.2%	0
LL-SB3-0-0.5-041911	93.3%	95.6%	0
LL-SB3-1.5-2-041911	93.6%	97.8%	0
LL-SB3-2-4-041911	90.5%	95.3%	0
LL-SB2-0-0.5-041911	91.9%	95.8%	0
LL-SB2-1.5-2-041911	91.2%	95.4%	0
LL-SB2-2-3.5-041911	87.4%	93.6%	0
LL-SB1-0-0.5-041911	88.0%	91.4%	0
LL-SB1-0-0.5-041911-D	90.6%	95.4%	0
LL-SB1-1.5-2-041911	90.6%	94.9%	0
LL-SB1-2-4-041911	90.4%	95.3%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 11-8654 to 11-8672

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

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Sample ID: LL-SB4-2-4-041911

MATRIX SPIKE

Lab Sample ID: SS71I

LIMS ID: 11-8662

Matrix: Soil

Data Release Authorized: *W*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Analyzed MS: 04/22/11 15:02

MSD: 04/22/11 15:31

Instrument/Analyst MS: PID1/MH

MSD: PID1/MH

Purge Volume: 5.0 mL

Sample Amount MS: 85.4 mg-dry-wt

MSD: 85.4 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons <	5.86 U	54.6	50.5	108%	56.0	50.5	111%	2.5%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	98.5%	102%
Bromobenzene	95.3%	97.9%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LL-SB4-2-4-041911

MATRIX SPIKE

Lab Sample ID: SS71I

LIMS ID: 11-8662

Matrix: Soil

Data Release Authorized: *mm*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Date Analyzed MS: 04/22/11 15:02

MSD: 04/22/11 15:31

Instrument/Analyst MS: PID1/MH

MSD: PID1/MH

Purge Volume: 5.0 mL

Sample Amount MS: 85.4 mg-dry-wt

MSD: 85.4 mg-dry-wt

Analyte	Sample	Spike		MS		Spike		MSD	
		MS	Added-MS	Recovery	MSD	Added-MSD	Recovery	RPD	
Benzene	< 29.3 U	183	187	97.9%	170	187	90.9%	7.4%	
Toluene	< 29.3 U	2130	1840	116%	2160	1840	117%	1.4%	
Ethylbenzene	< 29.3 U	613	540	114%	622	540	115%	1.5%	
m,p-Xylene	< 58.6 U	2260	2030	111%	2300	2030	113%	1.8%	
o-Xylene	< 29.3 U	1040	913	114%	1050	913	115%	1.0%	

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	95.0%	98.9%
Bromobenzene	96.3%	99.2%

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-042211

LAB CONTROL SAMPLE

Lab Sample ID: LCS-042211

LIMS ID: 11-8654

Matrix: Soil

Data Release Authorized: *mmw*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 04/22/11 07:27

Purge Volume: 5.0 mL

LCSD: 04/22/11 07:56

Instrument/Analyst LCS: PID1/MH

Sample Amount LCS: 100 mg-dry-wt

LCSD: PID1/MH

LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	50.5	50.0	101%	48.3	50.0	96.6%	4.5%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	100%	100%
Bromobenzene	96.3%	94.6%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: LCS-042211

LAB CONTROL SAMPLE

Lab Sample ID: LCS-042211

LIMS ID: 11-8654

Matrix: Soil

Data Release Authorized: *MW*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 04/22/11 07:27

Purge Volume: 5.0 mL

LCSD: 04/22/11 07:56

Instrument/Analyst LCS: PID1/MH

Sample Amount LCS: 100 mg-dry-wt

LCSD: PID1/MH

LCSD: 100 mg-dry-wt

Analyte	LCS	LCS		LCSD	LCSD		RPD
		Spike Added	Recovery		Spike Added	Recovery	
Benzene	164	185	88.6%	160	185	86.5%	2.5%
Toluene	1820	1820	100%	1810	1820	99.5%	0.6%
Ethylbenzene	526	535	98.3%	518	535	96.8%	1.5%
m,p-Xylene	1940	2000	97.0%	1900	2000	95.0%	2.1%
o-Xylene	894	905	98.8%	874	905	96.6%	2.3%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	97.3%	97.6%
Bromobenzene	97.4%	96.2%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0422S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project No.: LORA LAKE PARCEL

Date Analyzed : 04/22/11

Matrix: SOIL

Time Analyzed : 0825

Instrument ID : PID1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	LCS0422S1	LCS0422	04/22/11
02	LCSD0422S1	LCSD0422	04/22/11
03	LL-SB6-0-0.5	SS71A	04/22/11
04	LL-SB6-1.5-2	SS71B	04/22/11
05	LL-SB6-2-4-0	SS71C	04/22/11
06	LL-SB5-0-0.5	SS71D	04/22/11
07	LL-SB5-1.5-2	SS71E	04/22/11
08	LL-SB5-2-4-0	SS71F	04/22/11
09	LL-SB4-0-0.5	SS71G	04/22/11
10	LL-SB4-1.5-2	SS71H	04/22/11
11	LL-SB4-2-4-0	SS71I	04/22/11
12	LL-SB4-2-4-0	SS71IMS	04/22/11
13	LL-SB4-2-4-0	SS71IMSD	04/22/11
14	LL-SB3-0-0.5	SS71J	04/22/11
15	LL-SB3-1.5-2	SS71K	04/22/11
16	LL-SB3-2-4-0	SS71L	04/22/11
17	LL-SB2-0-0.5	SS71M	04/22/11
18	LL-SB2-1.5-2	SS71N	04/22/11
19	LL-SB2-2-3.5	SS71O	04/22/11
20	LL-SB1-0-0.5	SS71P	04/22/11
21	LL-SB1-0-0.5	SS71Q	04/22/11
22	LL-SB1-1.5-2	SS71R	04/22/11
23	LL-SB1-2-4-0	SS71S	04/22/11
24			
25			
26			
27			
28			
29			
30			

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MB-042211

METHOD BLANK

Lab Sample ID: MB-042211

LIMS ID: 11-8654

Matrix: Soil

Data Release Authorized: *mw*

Reported: 04/25/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL

Date Sampled: NA

Date Received: NA

Date Analyzed: 04/22/11 08:25

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	25	< 25 U	
108-88-3	Toluene	25	< 25 U	
100-41-4	Ethylbenzene	25	< 25 U	
179601-23-1	m,p-Xylene	50	< 50 U	
95-47-6	o-Xylene	25	< 25 U	
	Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	94.5%
Bromobenzene	95.3%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	94.7%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

6a
GAS INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.
Instrument/Det: PID1.I/RTX 502-2 FID
Calibration Date: 16-APR-2011

Client: FLOYD SNIDER
Project: LORA LAKE PARCEL
SDG No.: SS71

Gas Range	RF1 0.1	RF2 0.25	RF3 1.0	RF4 2.5	RF5 5.0	RF6 20	Ave RF	%RSD
WA Gas	473250	380984	347138	343150	344223	359894	374773	13.4
AK Gas	727610	621608	562218	550059	548531	614349	604063	11.3
NW Gas	520635	420932	371165	363968	364413	379420	403422	15.2
Cal Gas	903420	770886	701902	689102	686110	751141	750427	11.0
8015Gas	881800	768758	703324	689546	685838	752838	747017	10.0
\$TFT (Surr)	31.27273 26.40500	29.79545	27.23881	28.27000	27.63910	27.41011	28.29017	5.953
\$BB (Surr)	22.59091 19.47500	21.52273	20.02985	21.00000	20.45113	20.64607	20.85510	4.632

<- Indicates %RSD outside limits
Surrogate areas are not included in RF calculation.

Quant Ranges : WA Gas Toluene - nC12
 AK Gas nC6 - nC10
 NW Gas Toluene - Naphthalene
 Cal Gas nC6 - nC12
 8015 Gas 2-Methylpentane - 1,2,4-Trimethylbenzene

Calibration Files Analysis Time

0416a013.d	16-APR-2011 14:50
0416a014.d	16-APR-2011 15:19
0416a015.d	16-APR-2011 15:48
0416a016.d	16-APR-2011 16:17
0416a017.d	16-APR-2011 16:47
0416a018.d	16-APR-2011 17:16

Surr Calibration Files Analysis Time

0416a004.d	16-APR-2011 10:27
0416a005.d	16-APR-2011 10:56
0416a006.d	16-APR-2011 11:26
0416a007.d	16-APR-2011 11:55
0416a008.d	16-APR-2011 12:24
0416a009.d	16-APR-2011 12:53
0416a010.d	16-APR-2011 13:22

6
BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project No.: LORA LAKE PARCEL

Instrument/Det: PID1 /RTX 502-2 PID

Calibration Date: 04/16/11

COMPOUND	CALIBRATION FACTORS					MEAN	%RSD
	0.25	0.5	5	25	50		
Benzene	524	488	441	415	406		
Toluene	412	408	378	389	387		
Ethylbenzene	352	340	331	350	345		
M/P-Xylene	376	364	353	374	372		
O-Xylene	260	270	284	300	298		
MTBE	148	166	172	178	177		
TFT (Surr)	69	67	62	65	65		
BB (Surr)	138	135	127	134	136		

Calibration Files

```

/chem3/pid1.i/vpcc0416-2.b/0416a004.d
/chem3/pid1.i/vpcc0416-2.b/0416a005.d
/chem3/pid1.i/vpcc0416-2.b/0416a006.d
/chem3/pid1.i/vpcc0416-2.b/0416a007.d
/chem3/pid1.i/vpcc0416-2.b/0416a008.d
/chem3/pid1.i/vpcc0416-2.b/0416a009.d
/chem3/pid1.i/vpcc0416-2.b/0416a010.d

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6
BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project No.: LORA LAKE PARCEL

Instrument/Det: PID1 /RTX 502-2 PID

Calibration Date: 04/16/11

COMPOUND	CALIBRATION FACTORS						
	100	200	MEAN	%RSD			
-----	-----	-----	-----	-----	-----	-----	-----
Benzene	398	397	438	11.30			
Toluene	386	377	391	3.52			
Ethylbenzene	340	334	342	2.26			
M/P-Xylene	372	360	367	2.34			
O-Xylene	297	296	286	5.52			
MTBE	174	173	170	6.12			
=====	=====	=====	=====	=====	=====	=====	=====
TFT (Surr)	65	63	65	3.74			
BB (Surr)	138	134	134	2.70			

7
 BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project No.: LORA LAKE PARCEL

Instrument/Det: PID1/RTX 502-2 PID

Calibration Date: 04/22/11

Init. Calib. Date(s): 04/16/11

Calib. File: 0422A002.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
Benzene	7.05	7.00	7.10	22.99	25.00	-8.0
Toluene	9.94	9.89	9.99	23.91	25.00	-4.4
Ethylbenzene	12.85	12.80	12.90	24.51	25.00	-2.0
M/P-Xylene	13.01	12.96	13.06	48.85	50.00	-2.3
O-Xylene	13.96	13.93	13.99	25.20	25.00	0.8
MTBE	4.53	4.48	4.58	22.56	25.00	-9.8
TFT (Surr)	7.90	7.85	7.95	97.72	100.0	-2.3
BB (Surr)	15.45	15.40	15.50	96.29	100.0	-3.7

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a003.d

Inst/Det: PID1.I/RTX 502-2 FID

Gas Range	Area*	CalcAmt	NomAmt	%D
WAGas (Tol-C12)	904788	2.41	2.50	-3.4
AKGas (C6-C10)	1462570	2.42	2.50	-3.2
NWGas (Tol-Nap)	961478	2.38	2.50	-4.7
8015B (2MP-TMB)	1821815	2.44	2.50	-2.4

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a003.d

Inst/Det: PID1.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	52854	107.2	100.0	7.2
Bromoflrbenz	18403	96.2	100.0	-3.8

7
BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project No.: LORA LAKE PARCEL

Instrument/Det: PID1/RTX 502-2 PID

Calibration Date: 04/22/11

Init. Calib. Date(s): 04/16/11

Calib. File: 0422A014.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
Benzene	7.05	7.00	7.10	24.26	25.00	-3.0
Toluene	9.94	9.89	9.99	23.68	25.00	-5.3
Ethylbenzene	12.85	12.80	12.90	24.32	25.00	-2.7
M/P-Xylene	13.01	12.96	13.06	47.97	50.00	-4.1
O-Xylene	13.97	13.93	13.99	25.20	25.00	0.8
MTBE	4.52	4.48	4.58	22.50	25.00	-10.0
TFT (Surr)	7.90	7.85	7.95	96.20	100.0	-3.8
BB (Surr)	15.45	15.40	15.50	97.26	100.0	-2.7

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a015.d

Inst/Det: PID1.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	877458	2.34	2.50	-6.3
AKGas (C6-C10)	1458981	2.42	2.50	-3.4
NWGas (Tol-Nap)	928686	2.30	2.50	-7.9
8015B (2MP-TMB)	1807990	2.42	2.50	-3.2

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a015.d

Inst/Det: PID1.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	52886	106.2	100.0	6.2
Bromoflrbenz	18571	97.0	100.0	-3.0

7
BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project No.: LORA LAKE PARCEL

Instrument/Det: PID1/RTX 502-2 PID

Calibration Date: 04/22/11

Init. Calib. Date(s): 04/16/11

Calib. File: 0422A027.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
Benzene	7.05	7.00	7.10	23.88	25.00	-4.5
Toluene	9.95	9.89	9.99	23.10	25.00	-7.6
Ethylbenzene	12.85	12.80	12.90	23.65	25.00	-5.4
M/P-Xylene	13.01	12.96	13.06	47.16	50.00	-5.7
O-Xylene	13.97	13.93	13.99	24.38	25.00	-2.5
MTBE	4.53	4.48	4.58	22.65	25.00	-9.4
TFT (Surr)	7.90	7.85	7.95	89.60	100.0	-10.4
BB (Surr)	15.45	15.40	15.50	96.24	100.0	-3.8

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a028.d

Inst/Det: PID1.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	842482	2.25	2.50	-10.1
AKGas (C6-C10)	1332766	2.21	2.50	-11.7
NWGas (Tol-Nap)	889430	2.20	2.50	-11.8
8015B (2MP-TMB)	1661000	2.22	2.50	-11.1

* Surrogate areas are subtracted from Total Area
 <- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a028.d

Inst/Det: PID1.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	50237	102.0	100.0	2.0
Bromoflrbenz	18613	99.5	100.0	-0.5

7
BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project No.: LORA LAKE PARCEL

Instrument/Det: PID1/RTX 502-2 PID

Calibration Date: 04/22/11

Init. Calib. Date(s): 04/16/11

Calib. File: 0422A035.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
Benzene	7.05	7.00	7.10	23.59	25.00	-5.6
Toluene	9.95	9.89	9.99	22.89	25.00	-8.4
Ethylbenzene	12.85	12.80	12.90	23.00	25.00	-8.0
M/P-Xylene	13.01	12.96	13.06	45.41	50.00	-9.2
O-Xylene	13.97	13.93	13.99	23.66	25.00	-5.4
MTBE	4.53	4.48	4.58	22.64	25.00	-9.4
TFT (Surr)	7.90	7.85	7.95	85.94	100.0	-14.1
BB (Surr)	15.45	15.40	15.50	93.06	100.0	-6.9

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a036.d

Inst/Det: PID1.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	820297	2.19	2.50	-12.4
AKGas (C6-C10)	1284036	2.13	2.50	-15.0
NWGas (Tol-Nap)	869375	2.16	2.50	-13.8
8015B (2MP-TMB)	1606051	2.15	2.50	-14.0

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 16-APRIL-2011

Project: LORA LAKE PARCEL

CCal Date: 22-APR-2011

SDG No.: SS71

Lab File Name: 0422a036.d

Inst/Det: PID1.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	48817	98.0	100.0	-2.0
Bromoflrbenz	18002	96.3	100.0	-3.7

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project: LORA LAKE PARCEL

Instrument ID: PID1

GC Detector: RTX 502-2 PID

Run Date: 04/22/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

METHOD SURROGATE RT							
S1 : 7.90		S2 : 15.45					
CLIENT	LAB	DATE	TIME	S1	S2		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#	RT	#
=====	=====	=====	=====	=====	=====	=====	=====
01	ZZZZZ	ZZZZZ	04/22/11	0559			
02	RT+BCAL 1	RT+BCAL 1	04/22/11	0628	7.90	15.45	
03	GCAL 1	GCAL 1	04/22/11	0657	7.90	15.45	
04	LCS0422S1	LCS0422	04/22/11	0727	7.90	15.45	
05	LCSD0422S1	LCSD0422	04/22/11	0756	7.90	15.45	
06	MB0422S1	MB0422	04/22/11	0825	7.90	15.45	
07	LL-SB6-0-0.5	SS71A	04/22/11	0911	7.90	15.45	
08	LL-SB6-1.5-2	SS71B	04/22/11	0940	7.90	15.45	
09	LL-SB6-2-4-0	SS71C	04/22/11	1010	7.90	15.45	
10	LL-SB5-0-0.5	SS71D	04/22/11	1039	7.90	15.45	
11	LL-SB5-1.5-2	SS71E	04/22/11	1108	7.90	15.45	
12	LL-SB5-2-4-0	SS71F	04/22/11	1137	7.90	15.45	
13	ZZZZZ	ZZZZZ	04/22/11	1206			
14	BCAL 2	BCAL 2	04/22/11	1236	7.90	15.45	
15	GCAL 2	GCAL 2	04/22/11	1305	7.90	15.45	
16	LL-SB4-0-0.5	SS71G	04/22/11	1334	7.90	15.45	
17	LL-SB4-1.5-2	SS71H	04/22/11	1403	7.90	15.45	
18	LL-SB4-2-4-0	SS71I	04/22/11	1432	7.90	15.45	
19	LL-SB4-2-4-0	SS71IMS	04/22/11	1502	7.90	15.45	
20	LL-SB4-2-4-0	SS71IMSD	04/22/11	1531	7.90	15.45	
21	LL-SB3-0-0.5	SS71J	04/22/11	1600	7.90	15.45	
22	LL-SB3-1.5-2	SS71K	04/22/11	1629	7.90	15.45	
23	LL-SB3-2-4-0	SS71L	04/22/11	1658	7.90	15.45	
24	LL-SB2-0-0.5	SS71M	04/22/11	1727	7.90	15.45	
25	LL-SB2-1.5-2	SS71N	04/22/11	1757	7.90	15.45	
26	ZZZZZ	ZZZZZ	04/22/11	1826			
27	BCAL 3	BCAL 3	04/22/11	1855	7.90	15.45	
28	GCAL 3	GCAL 3	04/22/11	1924	7.90	15.45	
29	LL-SB2-2-3.5	SS71O	04/22/11	1953	7.90	15.45	
30	LL-SB1-0-0.5	SS71P	04/22/11	2023	7.90	15.45	
31	LL-SB1-0-0.5	SS71Q	04/22/11	2052	7.90	15.45	
32	LL-SB1-1.5-2	SS71R	04/22/11	2121	7.90	15.45	

QC LIMITS

S1 = TFT(Surr) (+/- 0.05 MINUTES)
S2 = BB(Surr) (+/- 0.05 MINUTES)

* Values outside of QC limits.

8
BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project: LORA LAKE PARCEL

Instrument ID: PID1

GC Detector: RTX 502-2 PID

Run Date: 04/22/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

METHOD SURROGATE RT							
S1 : 7.90				S2 : 15.45			
CLIENT	LAB	DATE	TIME	S1	S2		
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#	RT	#
=====	=====	=====	=====	=====	=====	=====	=====
01 LL-SB1-2-4-0	SS71S	04/22/11	2150	7.90		15.45	
02 ZZZZZ	ZZZZZ	04/22/11	2219				
03 BCAL 4	BCAL 4	04/22/11	2248	7.90		15.45	
04 GCAL 4	GCAL 4	04/22/11	2318	7.90		15.45	

QC LIMITS

S1 = TFT(Surr) (+/- 0.05 MINUTES)

S2 = BB(Surr) (+/- 0.05 MINUTES)

* Values outside of QC limits.

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SS71

Project: LORA LAKE PARCEL

Instrument ID: PID1

GC Detector: RTX 502-2 FID

Run Date: 04/16/11

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

METHOD SURROGATE RT					
S1 : 7.90		S2 : 15.45			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	RINSE	04/16/11	0900		
02	RT+BCAL 1	04/16/11	0929	7.90	15.45
03	RINSE	04/16/11	0958		
04	BETX .25	04/16/11	1027	7.90	15.45
05	BETX .5	04/16/11	1056	7.90	15.45
06	BETX 5	04/16/11	1126	7.90	15.45
07	BETX 25	04/16/11	1155	7.90	15.45
08	BETX 50	04/16/11	1224	7.90	15.45
09	BETX 100	04/16/11	1253	7.90	15.45
10	BETX 200	04/16/11	1322	7.90	15.45
11	BETX ICV	04/16/11	1352	7.90	15.45
12	RINSE	04/16/11	1421		
13	GAS .1	04/16/11	1450	7.90	15.45
14	GAS .25	04/16/11	1519	7.90	15.45
15	GAS 1	04/16/11	1548	7.90	15.45
16	GAS 2.5	04/16/11	1617	7.90	15.45
17	GAS 5	04/16/11	1647	7.90	15.45
18	GAS 20	04/16/11	1716		15.45
19	RINSE	04/16/11	1745	7.89	15.40
20	GAS ICV	04/16/11	1814	7.90	15.45

QC LIMITS
S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

**Metals Analysis
Report and Summary QC Forms**

ARI Job ID: SS71

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
LL-SB6-0-0.5-04181	SS71A	11-8654	
PBS	SS71MB1	11-8654	
LCSS	SS71MB1SPK	11-8654	
LL-SB6-1.5-2-04181	SS71B	11-8655	
LL-SB6-2-4-041811	SS71C	11-8656	
LL-SB5-0-0.5-04181	SS71D	11-8657	
LL-SB5-1.5-2-04181	SS71E	11-8658	
LL-SB5-2-4-041811	SS71F	11-8659	
LL-SB4-0-0.5-04191	SS71G	11-8660	
LL-SB4-1.5-2-04191	SS71H	11-8661	
LL-SB4-2-4-041911	SS71I	11-8662	
LL-SB4-2-4-041911D	SS71IDUP	11-8662	
LL-SB4-2-4-041911S	SS71ISPK	11-8662	
LL-SB3-0-0.5-04191	SS71J	11-8663	
LL-SB3-1.5-2-04191	SS71K	11-8664	
LL-SB3-2-4-041911	SS71L	11-8665	
LL-SB2-0-0.5-04191	SS71M	11-8666	
LL-SB2-1.5-2-04191	SS71N	11-8667	
LL-SB2-2-3.5-04191	SS71O	11-8668	
LL-SB1-0-0.5-04191	SS71P	11-8669	
LL-SB1-0-0.5-04191	SS71Q	11-8670	

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____

Name: Jay Kuhn

Date: _____

Title: Inorganics Director

COVER PAGE

SS71 : 00268

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
LL-SB1-1.5-2-04191	SS71R	11-8671	
LL-SB1-2-4-041911	SS71S	11-8672	
PBW	SS71MB2	11-8673	
LCSW	SS71MB2SPK	11-8673	
LL-ER-041911	SS71T	11-8673	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: Jay Kuhn Name: Jay Kuhn
Date: 4/28/11 Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: LL-SB6-0-0.5-041811

SAMPLE

Lab Sample ID: SS71A

LIMS ID: 11-8654

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/18/11

Date Received: 04/19/11

Percent Total Solids: 82.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	6	9	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	17	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LL-SB6-1.5-2-041811

SAMPLE

Lab Sample ID: SS71B

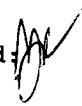
QC Report No: SS71-Floyd Snider

LIMS ID: 11-8655

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: 

Date Sampled: 04/18/11

Reported: 04/28/11

Date Received: 04/19/11

Percent Total Solids: 88.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	10	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	13	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LL-SB6-2-4-041811

SAMPLE

Lab Sample ID: SS71C


QC Report No: SS71-Floyd Snider

LIMS ID: 11-8656

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: 

Date Sampled: 04/18/11

Reported: 04/28/11

Date Received: 04/19/11

Percent Total Solids: 88.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	7	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	13	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LL-SB5-0-0.5-041811
SAMPLE

Lab Sample ID: SS71D

LIMS ID: 11-8657

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/18/11

Date Received: 04/19/11

Percent Total Solids: 73.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	7	12	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	3	64	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LL-SB5-1.5-2-041811
SAMPLE

Lab Sample ID: SS71E

LIMS ID: 11-8658

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/18/11

Date Received: 04/19/11

Percent Total Solids: 86.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	6	12	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	14	


U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: LL-SB5-2-4-041811
SAMPLE

Lab Sample ID: SS71F
LIMS ID: 11-8659
Matrix: Soil
Data Release Authorized: 
Reported: 04/28/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Percent Total Solids: 81.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	6	10	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	14	

U-Analyte undetected at given RL
RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LL-SB4-0-0.5-041911
SAMPLE

Lab Sample ID: SS71G

QC Report No: SS71-Floyd Snider

LIMS ID: 11-8660

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: *[Signature]*

Date Sampled: 04/19/11

Reported: 04/28/11

Date Received: 04/19/11

Percent Total Solids: 80.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	6	13	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	26	

U-Analyte undetected at given RL
RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LL-SB4-1.5-2-041911

SAMPLE

Lab Sample ID: SS71H
LIMS ID: 11-8661
Matrix: Soil
Data Release Authorized:
Reported: 04/28/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Percent Total Solids: 89.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	5	U
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	2	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

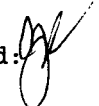
Sample ID: LL-SB4-2-4-041911

SAMPLE

Lab Sample ID: SS71I

LIMS ID: 11-8662

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 85.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	6	6	U
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	3	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LL-SB3-0-0.5-041911

SAMPLE

Lab Sample ID: SS71J


QC Report No: SS71-Floyd Snider

LIMS ID: 11-8663

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: 

Date Sampled: 04/19/11

Reported: 04/28/11

Date Received: 04/19/11

Percent Total Solids: 85.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	8	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	21	


U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: LL-SB3-1.5-2-041911
SAMPLE

Lab Sample ID: SS71K
LIMS ID: 11-8664
Matrix: Soil
Data Release Authorized: 
Reported: 04/28/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Percent Total Solids: 89.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	6	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	6	

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LL-SB3-2-4-041911
SAMPLE

Lab Sample ID: SS71L

LIMS ID: 11-8665

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 88.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	7	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	8	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LL-SB2-0-0.5-041911
SAMPLE

Lab Sample ID: SS71M

LIMS ID: 11-8666

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 87.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	13	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	58	

U-Analyte undetected at given RL

RL-Reporting Limit



INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: LL-SB2-1.5-2-041911

SAMPLE

Lab Sample ID: SS71N

LIMS ID: 11-8667

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 90.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	5	U
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	2	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1


Sample ID: LL-SB2-2-3.5-041911

SAMPLE

Lab Sample ID: SS710

LIMS ID: 11-8668

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 89.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	5	U
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	2	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LL-SB1-0-0.5-041911
SAMPLE

Lab Sample ID: SS71P

LIMS ID: 11-8669

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 92.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	5	U
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	2	


U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: LL-SB1-0-0.5-041911-D
SAMPLE

Lab Sample ID: SS71Q
LIMS ID: 11-8670
Matrix: Soil
Data Release Authorized: 
Reported: 04/28/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Percent Total Solids: 92.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	5	U
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	2	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LL-SB1-1.5-2-041911
SAMPLE

Lab Sample ID: SS71R

LIMS ID: 11-8671

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 91.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	6	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	9	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

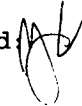
Sample ID: LL-SB1-2-4-041911

SAMPLE

Lab Sample ID: SS71S

LIMS ID: 11-8672

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

Percent Total Solids: 89.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	6	8	
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	15	

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LL-SB4-2-4-041911
MATRIX SPIKE

Lab Sample ID: SS71I

LIMS ID: 11-8662

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	6 U	223	227	98.2%	
Lead	6010B	3	220	227	95.6%	

Reported in mg/kg-dry

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LL-SB4-2-4-041911

DUPLICATE

Lab Sample ID: SS71I

LIMS ID: 11-8662

Matrix: Soil

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: 04/19/11

Date Received: 04/19/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	6 U	6 U	0.0%	+/- 6	L
Lead	6010B	3	2 U	40.0%	+/- 2	L

Reported in mg/kg-dry

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: SS71LCS


QC Report No: SS71-Floyd Snider

LIMS ID: 11-8654

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: 

Date Sampled: NA

Reported: 04/28/11

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	199	200	99.5%	
Lead	6010B	194	200	97.0%	

Reported in mg/kg-dry

N-Control limit not met

NA-Not Applicable, Analyte Not Spiked

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: SS71MB


QC Report No: SS71-Floyd Snider

LIMS ID: 11-8654

Project: Lora Lake Parcel

Matrix: Soil

POS-LL

Data Release Authorized: 

Date Sampled: NA

Reported: 04/28/11

Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	5	5	U
3050B	04/21/11	6010B	04/27/11	7439-92-1	Lead	2	2	U

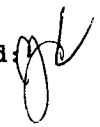
U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS
Page 1 of 1

Sample ID: LL-ER-041911
SAMPLE

Lab Sample ID: SS71T
LIMS ID: 11-8673
Matrix: Water
Data Release Authorized: 
Reported: 04/28/11

QC Report No: SS71-Floyd Snider
Project: Lora Lake Parcel
POS-LL
Date Sampled: 04/19/11
Date Received: 04/19/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	04/21/11	6010B	04/27/11	7439-92-1	Lead	0.02	0.02	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS


Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: SS71LCS

LIMS ID: 11-8673

Matrix: Water

Data Release Authorized: 

Reported: 04/28/11

QC Report No: SS71-Floyd Snider

Project: Lora Lake Parcel

POS-LL

Date Sampled: NA

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	2.04	2.00	102%	
Lead	6010B	1.97	2.00	98.5%	

Reported in mg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: SS71MB


QC Report No: SS71-Floyd Snider

LIMS ID: 11-8673

Project: Lora Lake Parcel

Matrix: Water

POS-LL

Data Release Authorized: 

Date Sampled: NA

Reported: 04/28/11

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	04/21/11	6010B	04/27/11	7440-38-2	Arsenic	0.05	0.05	U
3010A	04/21/11	6010B	04/27/11	7439-92-1	Lead	0.02	0.02	U

U-Analyte undetected at given RL

RL-Reporting Limit

Calibration Verification



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	ICP	IP042771	2000.0	2037.86	101.9	2000.0	2020.46	101.0	1952.24	97.6	1995.46	99.8	1977.26	98.9	1994.33	99.7
Lead	PB	ICP	IP042771	2000.0	1996.87	99.8	2000.0	2029.85	101.5	1964.86	98.2	1940.36	97.0	1986.87	99.3	1934.33	96.7

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71



UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	ICP	IF042771	50.0		52.47	104.9										
Lead	PB	ICP	IF042771	20.0		22.44	112.2										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

UNITS: ug/L

ANALYTE	EL METH	RUN	CRDL	IDL	ICB	ICB C	CCB1	CCB1 C	CCB2	CCB2 C	CCB3	CCB3 C	CCB4	CCB4 C	CCB5	CCB5 C
Arsenic	AS ICP	IP042771	10.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Lead	PB ICP	IP042771	3.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

ICP Interference Check Sample



CLIENT: Floyd Snider

ICS SOURCE: I.V.

PROJECT: Lora Lake Parcel

RUNID: IP042771

SDG: SS71

INSTRUMENT ID: OPTIMA ICP 2

UNITS: ug/L

ANALYTE	ICSA TV	ICSA TV	ICSA TV	ICSA1	ICSA1	ICSA2	ICSA2	ICSA3	ICSA3	ICSA3	ICSA3	ICSA3
Aluminum	20000	20000	20000	201378.0	201255.2	100.6						
Antimony	1000	1000	1000	1.9	1009.8	101.0						
Arsenic	1000	1000	1000	20.8	1026.0	102.6						
Barium	1000	1000	1000	-1.0	1006.4	100.6						
Beryllium	1000	1000	1000	0.1	1027.2	102.7						
Boron				-6.4	-7.2							
Cadmium	1000	1000	1000	1.0	990.7	99.1						
Calcium	100000	100000	100000	98806.8	99532.2	99.5						
Chromium	1000	1000	1000	-1.1	1021.5	102.2						
Cobalt	1000	1000	1000	1.3	919.3	91.9						
Copper	1000	1000	1000	-1.3	1007.4	100.7						
Iron	200000	200000	200000	196895.9	197826.6	98.9						
Lead	1000	1000	1000	-4.3	952.6	95.3						
Magnesium	100000	100000	100000	99029.0	99376.3	99.4						
Manganese	1000	1000	1000	0.4	950.9	95.1						
Molybdenum				3.1	3.3							
Nickel	1000	1000	1000	3.9	1009.7	101.0						
Potassium				45.7	599.2							
Selenium	1000	1000	1000	25.4	1043.2	104.3						
Silicon				-6.5	-11.5							
Silver	1000	1000	1000	0.2	1032.1	103.2						
Sodium				-8.5	-16.0							
Strontium				3.9	3.9							
Thallium	1000	1000	1000	11.3	958.7	95.9						
Tin				4.8	3.9							
Titanium				-4.1	-3.5							
Vanadium	1000	1000	1000	1.3	962.7	96.3						
Zinc	1000	1000	1000	3.8	999.1	99.9						

5571 : 00299

IDLs and ICP Linear Ranges



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	ICP	OPTIMA ICP 2	197.20		10	50.0	4/1/2011	30000.0	2/3/2011
Lead	PB	ICP	OPTIMA ICP 2	220.35		3	20.0	4/1/2011	300000.0	2/3/2011

ICP Interelement Correction Factors



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

IEC DATE: 3/14/2011

INSTRUMENT ID: OPTIMA ICP 2

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Antimony	206.84	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	9.9066900	0.000000	0.000000
Arsenic	188.98	0.000000	0.000000	0.000000	0.000000	0.0893242	0.000000	-1.0280600	0.9896930	0.000000	0.000000
Barium	233.53	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1423420	0.000000	0.000000	0.0649797
Beryllium	313.04	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Cadmium	228.80	0.000000	3.6086500	0.000000	0.000000	0.000000	0.000000	0.1351930	0.000000	0.000000	0.000000
Calcium	317.93	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Chromium	267.72	0.000000	0.000000	0.000000	0.000000	0.0148832	0.000000	0.000000	0.000000	0.000000	0.000000
Cobalt	228.62	0.000000	0.000000	0.0227510	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.0451581
Copper	324.75	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.1969920	-0.0283867	0.000000	0.000000
Iron	273.96	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Lead	220.35	-0.1952990	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-1.9460200	1.1789000	0.0588763
Magnesium	279.08	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-1.3945700	-0.8349460	0.000000	0.4579600
Manganese	257.61	0.0056707	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-0.0082982
Molybdenum	202.03	0.000000	0.000000	0.000000	0.000000	0.0185703	0.000000	0.000000	0.000000	0.000000	0.000000
Nickel	231.60	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Potassium	766.49	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Selenium	196.03	0.000000	0.000000	0.000000	0.000000	0.1513640	0.000000	0.000000	0.000000	0.000000	0.000000
Silicon	288.16	0.000000	0.000000	0.000000	0.000000	0.000000	-3.7058000	0.000000	0.000000	0.000000	0.000000
Silver	328.07	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Sodium	589.59	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Thallium	190.80	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	2.4468400	0.3572340	0.000000	-0.1350510
Tin	189.93	0.000000	0.000000	0.000000	0.000000	-0.2650000	0.000000	0.000000	0.000000	0.000000	0.000000
Titanium	334.90	0.000000	0.000000	0.000000	0.000000	0.1735400	0.000000	0.000000	0.1546720	0.000000	0.000000
Vanadium	292.40	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	-4.7348500	0.000000	0.0820500
Zinc	206.20	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0805698	0.000000	0.000000

FORM XI

ICP Interelement Correction Factors



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

IEC DATE: 3/14/2011

INSTRUMENT ID: OPTIMA ICP 2

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.000000	1.8788800	12.1307000	0.0000000	0.0000000	0.0000000	2.3503300	0.0000000	18.0364000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.3855180	0.0000000	0.0000000	-1.5147100	0.0000000	-3.2063100	0.0000000
Arsenic	188.98	0.0000000	0.0000000	1.3620000	0.0000000	0.0000000	0.0000000	-8.1444600	0.0000000	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0759003	0.0000000	0.0000000	0.0000000	0.0000000	0.4900780	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.5371850	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.6212080	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0685552	0.0000000	0.2199000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2689540	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.2536290	0.1584550	0.0000000	0.0000000	1.6159400	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0040015	0.0000000	0.1558430	0.0000000	0.0000000	0.0000000	0.3031690	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	5.2755600	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.3729230	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	-2.6953000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0058832	0.0000000	0.0000000	0.0000000	-0.2659040	0.0000000	0.0000000	0.0000000	-0.0245885	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.5897980	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0859101	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	-0.1197900	0.0000000	-1.8474100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.1773070	0.1067270	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2224750	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	137.7400000	0.0000000	0.0000000	162.9290000
Thallium	190.80	0.0000000	0.0000000	-3.9138800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.6225600	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.6365040	-0.3516110	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	1.2363700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1619680	-0.9516330	0.0000000	0.0000000	0.0000000	0.6209970	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.2547300	0.0000000	-0.0673589	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Preparation Log



CLIENT: Floyd Snider
PROJECT: Lora Lake Parcel
SDG: SS71

ANALYSIS METHOD: ICP
ARI PREP CODE: SWC
PREPDATE: 4/21/2011

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
LL-SB6-0-0.5-04181	SS71A	1.008	0.0	50.0
LL-SB6-1.5-2-04181	SS71B	1.080	0.0	50.0
LL-SB6-2-4-041811	SS71C	1.097	0.0	50.0
LL-SB5-0-0.5-04181	SS71D	1.028	0.0	50.0
LL-SB5-1.5-2-04181	SS71E	1.046	0.0	50.0
LL-SB5-2-4-041811	SS71F	1.075	0.0	50.0
LL-SB4-0-0.5-04191	SS71G	1.079	0.0	50.0
LL-SB4-1.5-2-04191	SS71H	1.079	0.0	50.0
LL-SB4-2-4-041911	SS71I	1.028	0.0	50.0
LL-SB4-2-4-041911D	SS71IDUP	1.025	0.0	50.0
LL-SB4-2-4-041911S	SS71ISPK	1.028	0.0	50.0
LL-SB3-0-0.5-04191	SS71J	1.076	0.0	50.0
LL-SB3-1.5-2-04191	SS71K	1.046	0.0	50.0
LL-SB3-2-4-041911	SS71L	1.043	0.0	50.0
LL-SB2-0-0.5-04191	SS71M	1.059	0.0	50.0
PBS	SS71MB1	1.000	0.0	50.0
LCSS	SS71MB1SPK	1.000	0.0	50.0
LL-SB2-1.5-2-04191	SS71N	1.040	0.0	50.0
LL-SB2-2-3.5-04191	SS71O	1.092	0.0	50.0
LL-SB1-0-0.5-04191	SS71P	1.055	0.0	50.0
LL-SB1-0-0.5-04191	SS71Q	1.048	0.0	50.0
LL-SB1-1.5-2-04191	SS71R	1.070	0.0	50.0
LL-SB1-2-4-041911	SS71S	1.011	0.0	50.0

Preparation Log



CLIENT: Floyd Snider

ANALYSIS METHOD: ICP

PROJECT: Lora Lake Parcel

ARI PREP CODE: TWC

SDG: SS71

PREPDATE: 4/21/2011

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
PBW	SS71MB2	0.000	50.0	50.0
LCSW	SS71MB2SPK	0.000	50.0	50.0
LL-ER-041911	SS71T	0.000	50.0	50.0

Analysis Run Log

CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

INSTRUMENT ID: OPTIMA ICP 2
 RUNID: IP042771 METHOD: ICP

START DATE: 4/27/2011
 END DATE: 4/27/2011



CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN					
S0		1.00	08434																															X				
S2		1.00	08475																																X			
S3		1.00	08494																																X			
S4		1.00	08521																																	X		
S5		1.00	08542																																	X		
ICV		1.00	08584																																X			
ICB		1.00	09020																																	X		
CRI		1.00	09061																																	X		
ICSA		1.00	09102																																	X		
ICSAB		1.00	09144																																	X		
CCV		1.00	09193																																	X		
CCB		1.00	09223																																	X		
ZZZZZZ		2.00	09264																																		X	
ZZZZZZ		5.00	09305																																			X
ZZZZZZ		5.00	09352																																			X
ZZZZZZ		5.00	09395																																			X
ZZZZZZ		5.00	09441																																			X
ZZZZZZ		5.00	09484																																			X
ZZZZZZ		5.00	09525																																			X
ZZZZZZ		5.00	09572																																			X
ZZZZZZ		2.00	10013																																			X
ZZZZZZ		2.00	10053																																			X
CCV		1.00	10093																																			X
CCB		1.00	10123																																			X
PBW		1.00	10164																																			X
LL-ER-041911		1.00	10210																																			X
LL-SB6-0-0.5-04181		2.00	10251																																			X
LL-SB6-1.5-2-04181		2.00	10290																																			X
LL-SB6-2-4-041811		2.00	10330																																			X
LL-SB4-2-4-041911D		2.00	10370																																			X
LL-SB4-2-4-041911		2.00	10410																																			X
LL-SB4-2-4-041911S		2.00	10445																																			X
LL-SB2-0-0.5-04191		2.00	10485																																			X
LCSW		1.00	10525																																			X
CCV		1.00	10565																																			X

0071 : 000005

Analysis Run Log



CLIENT: Floyd Snider

PROJECT: Lora Lake Parcel

SDG: SS71

INSTRUMENT ID: OPTIMA ICP 2
 RUNID: IP042771 METHOD: ICP

START DATE: 4/27/2011
 END DATE: 4/27/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
CCB	CCB3	1.00	11000	X																												X	
PBS	SS71MB1	2.00	11042	X																												X	
LL-SB5-0-0.5-04181	SS71D	2.00	11083	X																												X	
LL-SB5-1.5-2-04181	SS71E	2.00	11123	X																												X	
LL-SB5-2-4-04181	SS71F	2.00	11162	X																												X	
LL-SB4-0-0.5-04191	SS71G	2.00	11202	X																												X	
LL-SB4-1.5-2-04191	SS71H	2.00	11242	X																												X	
LL-SB3-0-0.5-04191	SS71J	2.00	11281	X																												X	
LL-SB3-1.5-2-04191	SS71K	2.00	11321	X																												X	
LL-SB3-2-4-04191	SS71L	2.00	11361	X																												X	
LCSS	SS71MB1SPK	2.00	11401	X																												X	
CCV	CCV4	1.00	11440	X																												X	
CCB	CCB4	1.00	11471	X																												X	
ZZZZZZ	SS83MB2	1.00	11512																														
LL-SB4-2-4-04191	SS71I	2.00	11552																														
LL-SB4-2-4-04191	SS71IDUP	2.00	11591																														
LL-SB2-1.5-2-04191	SS71N	2.00	12031	X																												X	
LL-SB2-2-3.5-04191	SS71O	2.00	12071	X																												X	
LL-SB1-0-0.5-04191	SS71P	2.00	12111	X																												X	
LL-SB1-0-0.5-04191	SS71Q	2.00	12151	X																												X	
LL-SB1-1.5-2-04191	SS71R	2.00	12191	X																												X	
LL-SB1-2-4-04191	SS71S	2.00	12230	X																												X	
ZZZZZZ	SS83MB2SPK	1.00	12270																														
CCV	CCV5	1.00	12310	X																												X	
CCB	CCB5	1.00	12341	X																												X	

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**General Chemistry Analysis
Report and Summary QC Forms**

ARI Job ID: SS71

SAMPLE RESULTS-CONVENTIONALS
SS71-Floyd Snider



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/04/11

Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Client ID: LL-SB6-0-0.5-041811

ARI ID: 11-8654 SS71A

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/20/11 042011#1	EPA 160.3	Percent	0.01	83.40
Total Organic Carbon	04/25/11 042511#1	Plumb, 1981	Percent	0.020	5.09

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS71-Floyd Snider



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/04/11

Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Client ID: LL-SB6-1.5-2-041811
ARI ID: 11-8655 SS71B

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/20/11 042011#1	EPA 160.3	Percent	0.01	88.00
Total Organic Carbon	04/25/11 042511#1	Plumb, 1981	Percent	0.020	2.90

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS71-Floyd Snider



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/04/11

Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Client ID: LL-SB6-2-4-041811
ARI ID: 11-8656 SS71C

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/20/11 042011#1	EPA 160.3	Percent	0.01	88.40
Total Organic Carbon	04/25/11 042511#1	Plumb,1981	Percent	0.020	1.77

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS71-Floyd Snider



Matrix: Soil
Data Release Authorized: *[Signature]*
Reported: 05/04/11

Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Client ID: LL-SB5-0-0.5-041811
ARI ID: 11-8657 SS71D

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/20/11 042011#1	EPA 160.3	Percent	0.01	74.00
Total Organic Carbon	04/27/11 042711#1	Plumb,1981	Percent	0.154	8.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SS71-Floyd Snider



Matrix: Soil
Data Release Authorized:
Reported: 05/04/11

A handwritten signature in black ink, appearing to be 'F. Snider', written over the 'Data Release Authorized:' text.

Project: Lora Lake Parcel
Event: POS-LL
Date Sampled: 04/18/11
Date Received: 04/19/11

Client ID: LL-SB5-1.5-2-041811
ARI ID: 11-8658 SS71E

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/20/11 042011#1	EPA 160.3	Percent	0.01	85.10
Total Organic Carbon	04/25/11 042511#1	Plumb, 1981	Percent	0.020	3.86

RL Analytical reporting limit
U Undetected at reported detection limit