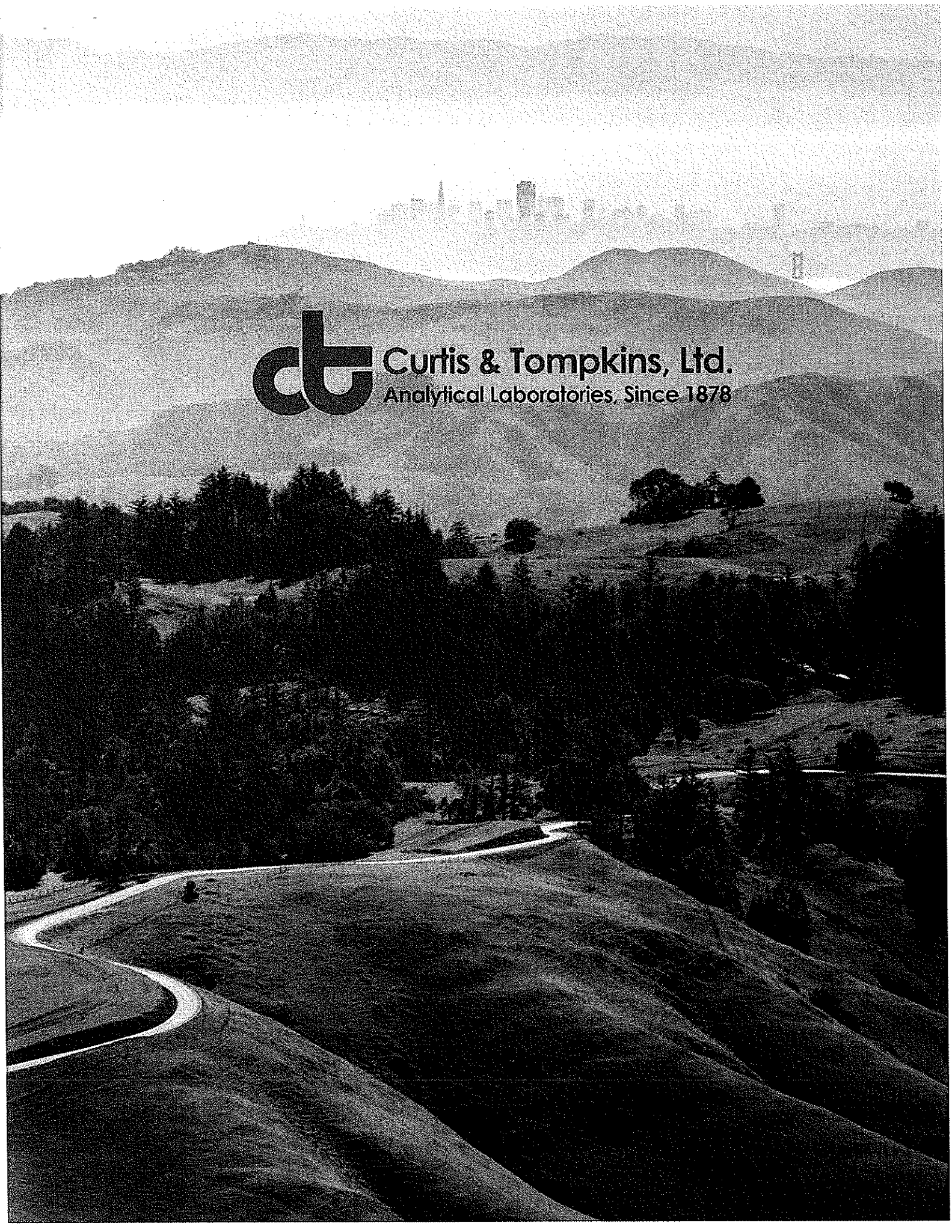
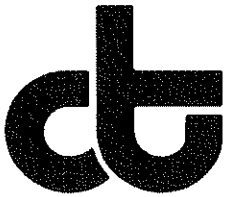


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Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 232744  
ANALYTICAL REPORT**

Rockridge Geotechnical  
4379 Piedmont Ave.  
Oakland, CA 94611

Project : AYC  
Location : Ashland Youth Center  
Level : II

Sample ID

VW-1  
VW-2

Lab ID

232744-001  
232744-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Project Manager

Date: 11/16/2011

NELAP # 01107CA

**CASE NARRATIVE**

Laboratory number: 232744  
Client: Rockridge Geotechnical  
Project: AYC  
Location: Ashland Youth Center  
Request Date: 11/14/11  
Samples Received: 11/14/11

This data package contains sample and QC results for two water samples, requested for the above referenced project on 11/14/11. The samples were received cold and intact.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**

No analytical problems were encountered.

**TPH-Extractables by GC (EPA 8015B):**

No analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B):**

Low recovery was observed for trichloroethene in the MSD for batch 181298; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. VW-1 (lab # 232744-001) had pH greater than 2. No other analytical problems were encountered.

**PCBs (EPA 8082):**

All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Rockridge Geotechnical

<b>Cornerstone Earth Group, Inc.</b> 2737 North Main St., Suite #10 Walnut Creek, California 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name: Site: <u>ASHLAND Youth Center</u> Project Number: <u>(AYC)</u>		Project Manager: <u>Logan Medeiros</u> Tel/Fax: <u>510-520-4329</u> Analysis Turnaround Time <u>ASAP</u> TAT if different from Below _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Lab Contact: Date: <u>11/14/11</u> Carrier:		COC No: _____ of _____ COCs Laboratory's Job No. _____ Laboratory's Sample Specific Notes:											
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample											
VW-1	11/14	1400	Bottle Water		9	X	X	X	X	X	X						
VW-2	11/14	1430	↓ Water		9	X	X	X	X	X	X						
Preservation Used: <input checked="" type="checkbox"/> Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other <u>1</u>						Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:																	
Relinquished by: <u>[Signature]</u> Company: <u>CEL</u> Date/Time: <u>11/14/11 3:00 PM</u>		Relinquished by: <u>[Signature]</u> Company: <u>Rockridge Geo.</u> Date/Time: <u>11/14/11 4:15 PM</u>		Relinquished by: <u>[Signature]</u> Company: <u>C&amp;T</u> Date/Time: <u>11/14/11 1615</u>		Received by: <u>[Signature]</u> Company: <u>Rockridge Geo.</u> Date/Time: <u>11/14/11 3:00 PM</u>		Received by: <u>[Signature]</u> Company: <u>C&amp;T</u> Date/Time: <u>11/14/11 1615</u>		Received by: _____ Company: _____ Date/Time: _____		Received by: _____ Company: _____ Date/Time: _____		Received by: _____ Company: _____ Date/Time: _____		Received by: _____ Company: _____ Date/Time: _____	

**COOLER RECEIPT CHECKLIST**



Login # 232744 Date Received 11/14/11 Number of coolers 1  
 Client Comstock Field Group Project Ashland Land Center (ASC)  
Rockridge Geotechnical  
 Date Opened 11/14/11 By (print) David Soderberg (sign) David Selly  
 Date Logged in \_\_\_\_\_ By (print) \_\_\_\_\_ (sign) \_\_\_\_\_

1. Did cooler come with a shipping slip (airbill, etc) \_\_\_\_\_ YES  NO  
 Shipping info \_\_\_\_\_

2A. Were custody seals present? ....  YES (circle) on cooler on samples  NO  
 How many \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

2B. Were custody seals intact upon arrival? \_\_\_\_\_ YES NO  N/A

3. Were custody papers dry and intact when received? \_\_\_\_\_  YES NO

4. Were custody papers filled out properly (ink, signed, etc)? \_\_\_\_\_  YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form)  YES NO

6. Indicate the packing in cooler: (if other, describe) \_\_\_\_\_

- Bubble Wrap  Foam blocks  Bags  None
- Cloth material  Cardboard  Styrofoam  Paper towels

7. Temperature documentation: \* Notify PM if temperature exceeds 6°C  
 Type of ice used:  Wet  Blue/Gel  None Temp(°C) \_\_\_\_\_

- Samples Received on ice & cold without a temperature blank
- Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? \_\_\_\_\_ YES  NO  
 If YES, what time were they transferred to freezer? \_\_\_\_\_

9. Did all bottles arrive unbroken/unopened? \_\_\_\_\_  YES NO

10. Are there any missing / extra samples? \_\_\_\_\_ YES  NO

11. Are samples in the appropriate containers for indicated tests? \_\_\_\_\_  YES NO

12. Are sample labels present, in good condition and complete? \_\_\_\_\_  YES NO

13. Do the sample labels agree with custody papers? \_\_\_\_\_  YES NO

14. Was sufficient amount of sample sent for tests requested? \_\_\_\_\_  YES NO

15. Are the samples appropriately preserved? \_\_\_\_\_  YES NO N/A

16. Did you check preservatives for all bottles for each sample? \_\_\_\_\_ YES NO  N/A

17. Did you document your preservative check? \_\_\_\_\_ YES NO  N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? \_\_\_\_\_ YES NO  N/A

19. Did you change the hold time in LIMS for preserved terracores? \_\_\_\_\_ YES NO  N/A

20. Are bubbles > 6mm absent in VOA samples? \_\_\_\_\_  YES NO N/A

21. Was the client contacted concerning this sample delivery? \_\_\_\_\_ YES NO  
 If YES, Who was called? \_\_\_\_\_ By \_\_\_\_\_ Date: \_\_\_\_\_

**COMMENTS**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## Batch QC Report

**Total Volatile Hydrocarbons**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC618599	Batch#:	181268
Matrix:	Water	Analyzed:	11/14/11
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,052	105	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	78-123

Batch QC Report

**Total Volatile Hydrocarbons**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	181268
MSS Lab ID:	232709-001	Sampled:	11/11/11
Matrix:	Water	Received:	11/11/11
Units:	ug/L	Analyzed:	11/14/11
Diln Fac:	1.000		

Type: MS Lab ID: QC618601

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	225.1	2,000	2,145	96	66-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-123

Type: MSD Lab ID: QC618602

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,261	102	66-120	5	25

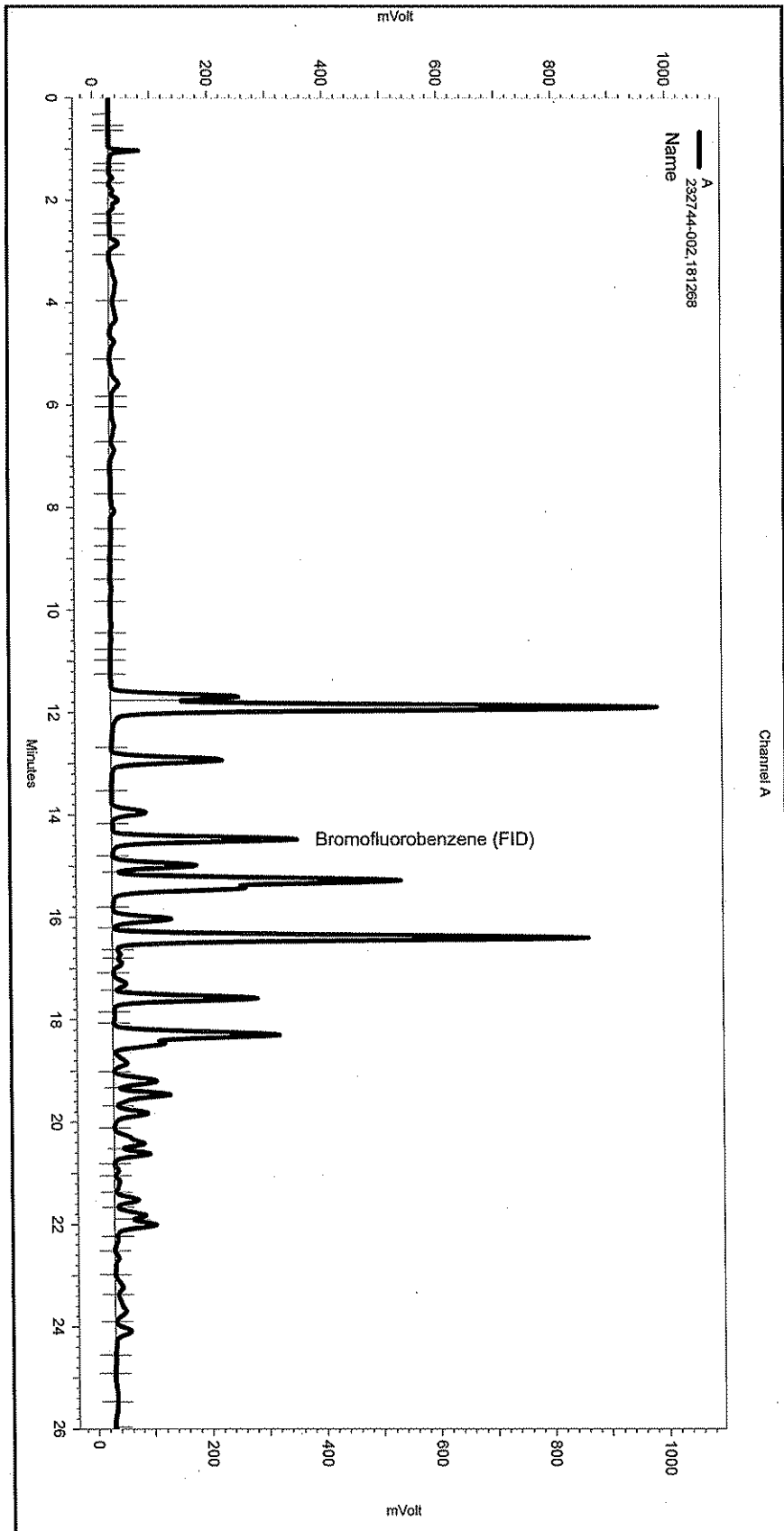
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	119	78-123

RPD= Relative Percent Difference



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 Sample Name: 232744-002,181268  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\318-012  
 Instrument: GC04 Vial: N/A Operator: lms2k3\lvh3  
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Software Version 3.1.7  
 Run Date: 11/15/2011 12:38:47 AM  
 Analysis Date: 11/15/2011 1:08:15 AM  
 Sample Amount: 5 Multiplier: 5  
 Vial & pH or Core ID: a1.0



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

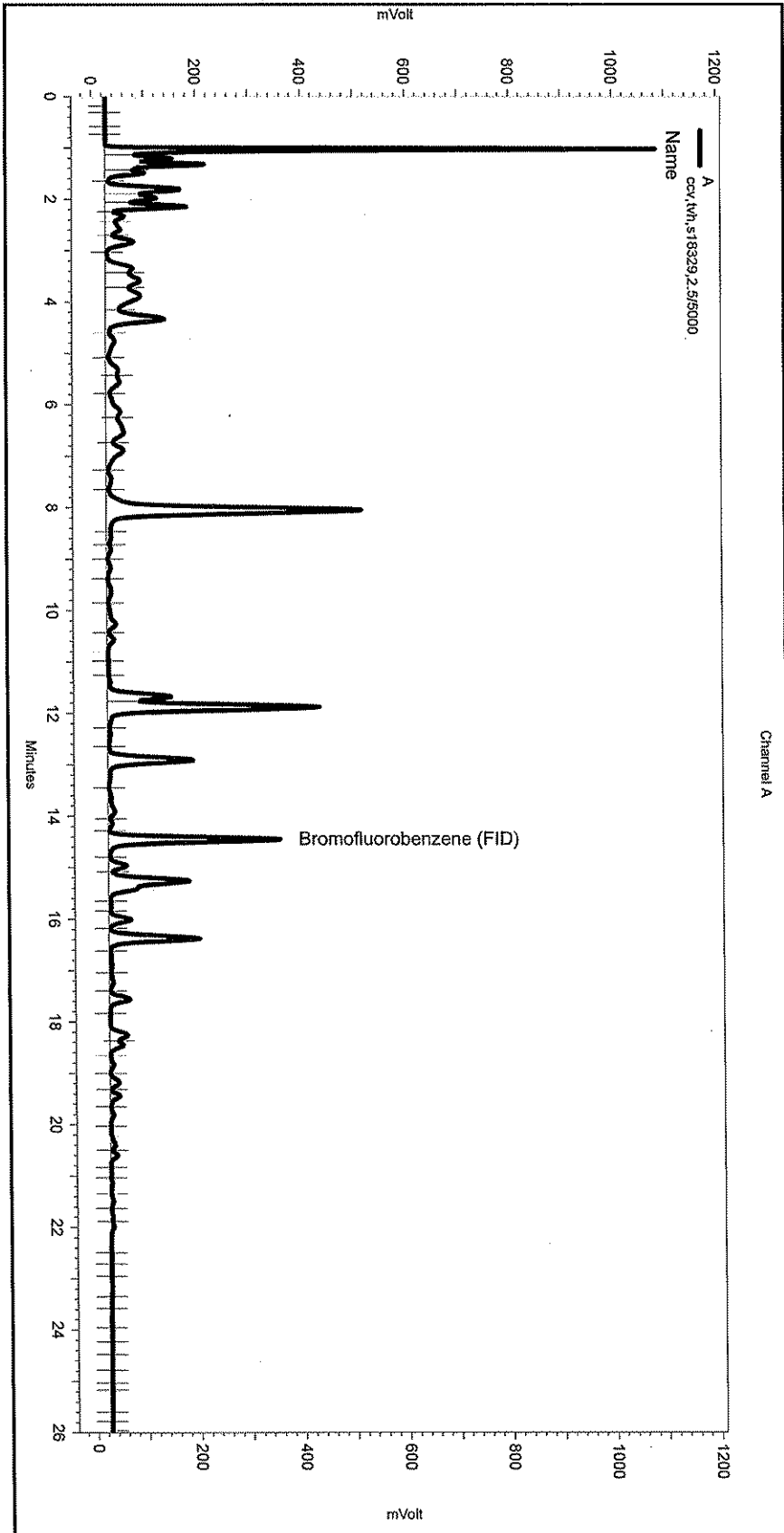
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\318-012\_656E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

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 Sample Name: ccv,tvh,s18329,2.5/5000  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\318-002  
 Instrument: GC04 Vial: N/A Operator: lms2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe313r.met

Software Version 3.1.7  
 Run Date: 11/14/2011 12:48:17 PM  
 Analysis Date: 11/14/2011 1:17:50 PM  
 Sample Amount: 5 Multiplier: 5  
 Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.100471318-002\_6564.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Batch QC Report

**Total Extractable Hydrocarbons**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3520C
Project#:	AYC	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	181269
Units:	ug/L	Prepared:	11/14/11
Diln Fac:	1.000	Analyzed:	11/16/11

Type: BS Cleanup Method: EPA 3630C  
 Lab ID: QC618607

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,930	77	61-120

Surrogate	%REC	Limits
o-Terphenyl	103	68-120

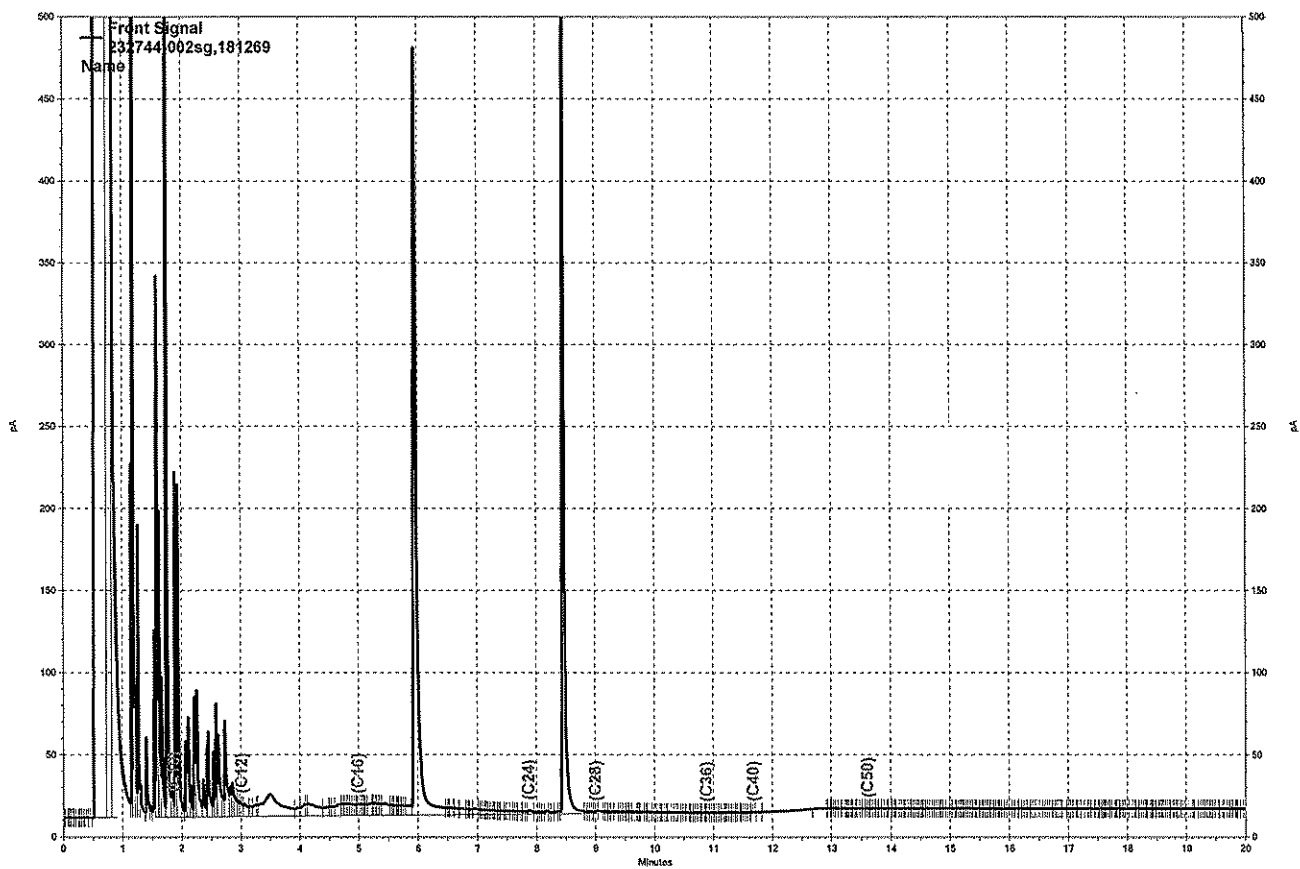
Type: BSD Cleanup Method: EPA 3630C  
 Lab ID: QC618608

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,871	75	61-120	3	20

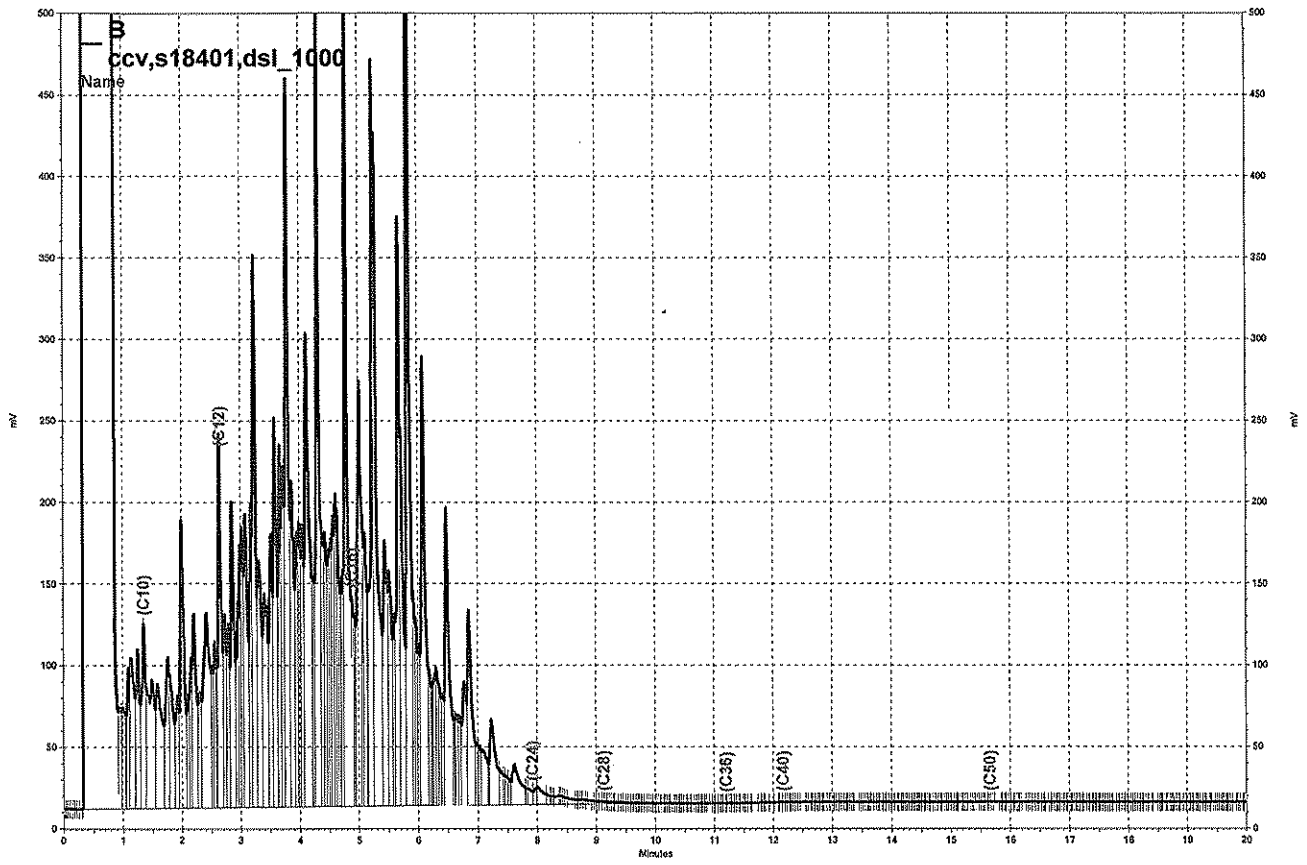
  

Surrogate	%REC	Limits
o-Terphenyl	102	68-120

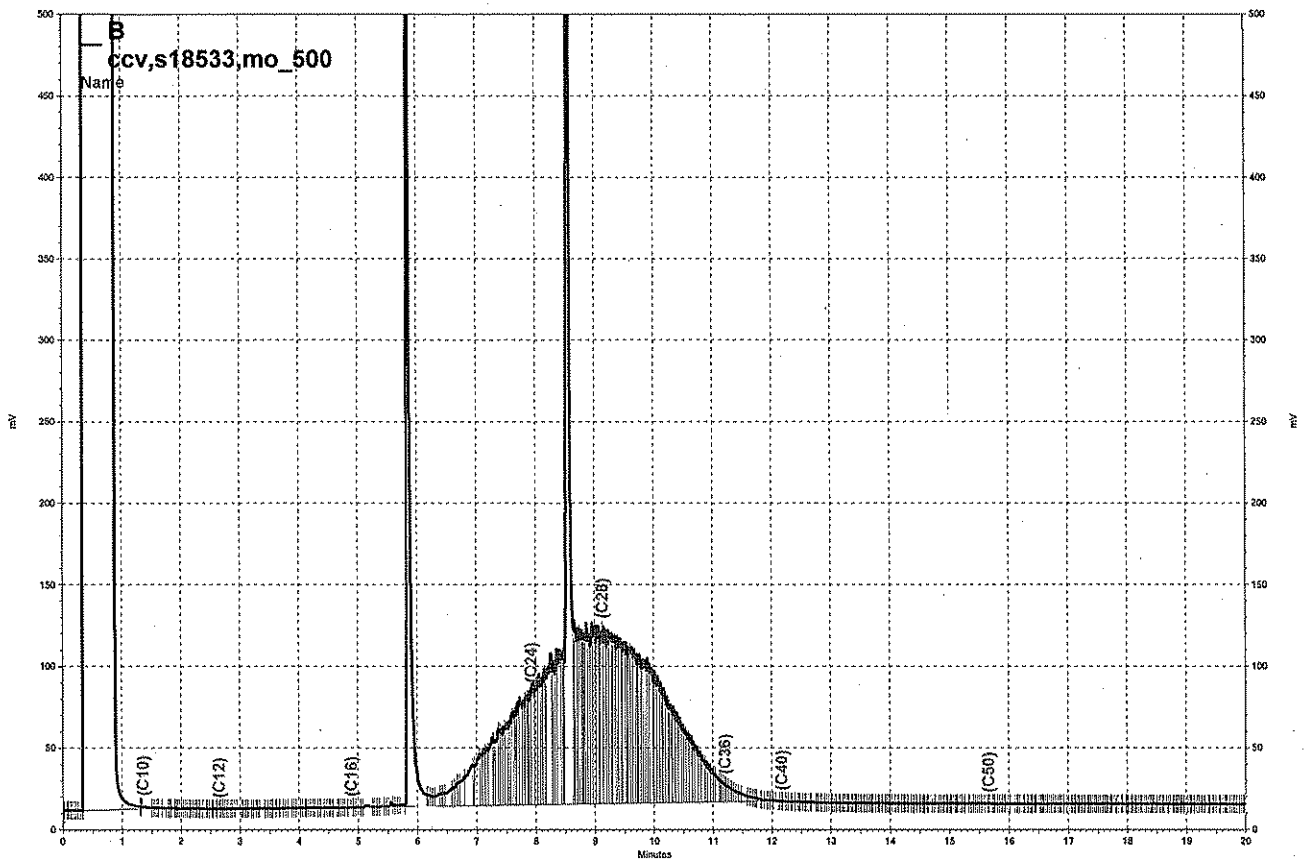
RPD= Relative Percent Difference



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— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\318b074, B

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Field ID:	VW-1	Batch#:	181297
Lab ID:	232744-001	Sampled:	11/14/11
Matrix:	Water	Received:	11/14/11
Units:	ug/L	Analyzed:	11/15/11
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected  
 RL= Reporting Limit



### Purgeable Organics by GC/MS

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Field ID:	VW-1	Batch#:	181297
Lab ID:	232744-001	Sampled:	11/14/11
Matrix:	Water	Received:	11/14/11
Units:	ug/L	Analyzed:	11/15/11
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-127
1,2-Dichloroethane-d4	103	73-145
Toluene-d8	101	80-120
Bromofluorobenzene	116	80-120

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Field ID:	VW-2	Batch#:	181298
Lab ID:	232744-002	Sampled:	11/14/11
Matrix:	Water	Received:	11/14/11
Units:	ug/L	Analyzed:	11/15/11
Diln Fac:	1.667		

Analyte	Result	RL
Freon 12	ND	1.7
Chloromethane	ND	1.7
Vinyl Chloride	ND	0.8
Bromomethane	ND	1.7
Chloroethane	ND	1.7
Trichlorofluoromethane	ND	1.7
Acetone	ND	17
Freon 113	ND	3.3
1,1-Dichloroethene	ND	0.8
Methylene Chloride	ND	17
Carbon Disulfide	ND	0.8
MTBE	ND	0.8
trans-1,2-Dichloroethene	ND	0.8
Vinyl Acetate	ND	17
1,1-Dichloroethane	ND	0.8
2-Butanone	ND	17
cis-1,2-Dichloroethene	ND	0.8
2,2-Dichloropropane	ND	0.8
Chloroform	ND	0.8
Bromochloromethane	ND	0.8
1,1,1-Trichloroethane	ND	0.8
1,1-Dichloropropene	ND	0.8
Carbon Tetrachloride	ND	0.8
1,2-Dichloroethane	ND	0.8
Benzene	ND	0.8
Trichloroethene	0.8	0.8
1,2-Dichloropropane	ND	0.8
Bromodichloromethane	ND	0.8
Dibromomethane	ND	0.8
4-Methyl-2-Pentanone	ND	17
cis-1,3-Dichloropropene	ND	0.8
Toluene	1.3	0.8
trans-1,3-Dichloropropene	ND	0.8
1,1,2-Trichloroethane	ND	0.8
2-Hexanone	ND	17
1,3-Dichloropropane	ND	0.8
Tetrachloroethene	ND	0.8

ND= Not Detected  
 RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Field ID:	VW-2	Batch#:	181298
Lab ID:	232744-002	Sampled:	11/14/11
Matrix:	Water	Received:	11/14/11
Units:	ug/L	Analyzed:	11/15/11
Diln Fac:	1.667		

Analyte	Result	RL
Dibromochloromethane	ND	0.8
1,2-Dibromoethane	ND	0.8
Chlorobenzene	ND	0.8
1,1,1,2-Tetrachloroethane	ND	0.8
Ethylbenzene	41	0.8
m,p-Xylenes	170	0.8
o-Xylene	37	0.8
Styrene	ND	0.8
Bromoform	ND	1.7
Isopropylbenzene	12	0.8
1,1,2,2-Tetrachloroethane	ND	0.8
1,2,3-Trichloropropane	ND	0.8
Propylbenzene	28	0.8
Bromobenzene	ND	0.8
1,3,5-Trimethylbenzene	45	0.8
2-Chlorotoluene	ND	0.8
4-Chlorotoluene	ND	0.8
tert-Butylbenzene	ND	0.8
1,2,4-Trimethylbenzene	150	0.8
sec-Butylbenzene	3.1	0.8
para-Isopropyl Toluene	2.4	0.8
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
n-Butylbenzene	14	0.8
1,2-Dichlorobenzene	ND	0.8
1,2-Dibromo-3-Chloropropane	ND	3.3
1,2,4-Trichlorobenzene	ND	0.8
Hexachlorobutadiene	ND	3.3
Naphthalene	23	3.3
1,2,3-Trichlorobenzene	ND	0.8

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-127
1,2-Dichloroethane-d4	101	73-145
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	181297
Units:	ug/L	Analyzed:	11/15/11
Diln Fac:	1.000		

Type: BS Lab ID: QC618745

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.39	106	64-133
Benzene	25.00	26.86	107	80-122
Trichloroethene	25.00	25.26	101	78-120
Toluene	25.00	26.32	105	80-120
Chlorobenzene	25.00	25.39	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-127
1,2-Dichloroethane-d4	101	73-145
Toluene-d8	100	80-120
Bromofluorobenzene	102	80-120

Type: BSD Lab ID: QC618746

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	26.39	106	64-133	0	20
Benzene	25.00	27.21	109	80-122	1	20
Trichloroethene	25.00	25.55	102	78-120	1	20
Toluene	25.00	26.73	107	80-120	2	20
Chlorobenzene	25.00	25.89	104	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-127
1,2-Dichloroethane-d4	103	73-145
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

## Batch QC Report

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC618747	Batch#:	181297
Matrix:	Water	Analyzed:	11/15/11
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**
**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC618747	Batch#:	181297
Matrix:	Water	Analyzed:	11/15/11
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-127
1,2-Dichloroethane-d4	104	73-145
Toluene-d8	101	80-120
Bromofluorobenzene	115	80-120

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	181298
Units:	ug/L	Analyzed:	11/15/11
Diln Fac:	1.000		

Type: BS Lab ID: QC618748

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	20.97	84	64-133
Benzene	25.00	23.02	92	80-122
Trichloroethene	25.00	22.70	91	78-120
Toluene	25.00	23.59	94	80-120
Chlorobenzene	25.00	25.70	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-127
1,2-Dichloroethane-d4	102	73-145
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC618749

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	20.52	82	64-133	2	20
Benzene	25.00	22.72	91	80-122	1	20
Trichloroethene	25.00	22.24	89	78-120	2	20
Toluene	25.00	21.86	87	80-120	8	20
Chlorobenzene	25.00	25.45	102	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-127
1,2-Dichloroethane-d4	100	73-145
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

## Batch QC Report

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC618750	Batch#:	181298
Matrix:	Water	Analyzed:	11/15/11
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC618750	Batch#:	181298
Matrix:	Water	Analyzed:	11/15/11
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-127
1,2-Dichloroethane-d4	107	73-145
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

**Purgeable Organics by GC/MS**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	AYC	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	181298
MSS Lab ID:	232566-013	Sampled:	11/04/11
Matrix:	Water	Received:	11/07/11
Units:	ug/L	Analyzed:	11/15/11
Diln Fac:	1.000		

Type: MS Lab ID: QC618841

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	0.2673	25.00	21.19	84	73-126
Benzene	<0.1000	25.00	23.03	92	80-120
Trichloroethene	45.98	25.00	65.45	78	69-122
Toluene	<0.1000	25.00	23.61	94	80-120
Chlorobenzene	<0.1296	25.00	25.70	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-127
1,2-Dichloroethane-d4	103	73-145
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-120

Type: MSD Lab ID: QC618842

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	22.13	87	73-126	4	20
Benzene	25.00	23.71	95	80-120	3	20
Trichloroethene	25.00	63.11	68 *	69-122	4	20
Toluene	25.00	22.92	92	80-120	3	20
Chlorobenzene	25.00	25.59	102	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-127
1,2-Dichloroethane-d4	104	73-145
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-120

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



## Batch QC Report

**Polychlorinated Biphenyls (PCBs)**

Lab #:	232744	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3520C
Project#:	AYC	Analysis:	EPA 8082
Matrix:	Water	Batch#:	181273
Units:	ug/L	Prepared:	11/14/11
Diln Fac:	1.000	Analyzed:	11/15/11

Type: BS Lab ID: QC618621

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	5.000	4.508	90	64-132
Aroclor-1260	5.000	4.171	83	60-137

Surrogate	%REC	Limits
TCMX	83	47-120
Decachlorobiphenyl	75	35-120

Type: BSD Lab ID: QC618622

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	5.000	4.764	95	64-132	6	30
Aroclor-1260	5.000	4.559	91	60-137	9	35

Surrogate	%REC	Limits
TCMX	88	47-120
Decachlorobiphenyl	83	35-120

RPD= Relative Percent Difference