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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.

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 232744 Date Received 1/14/11 Number of coolers 1
Client Comstock Tech Group Project Ashland Land Center (ARC)
Rockridge Geotechnical
Date Opened 1/14/11 By (print) David Soderberg (sign) David Soderberg
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

Blank lines for handwritten 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

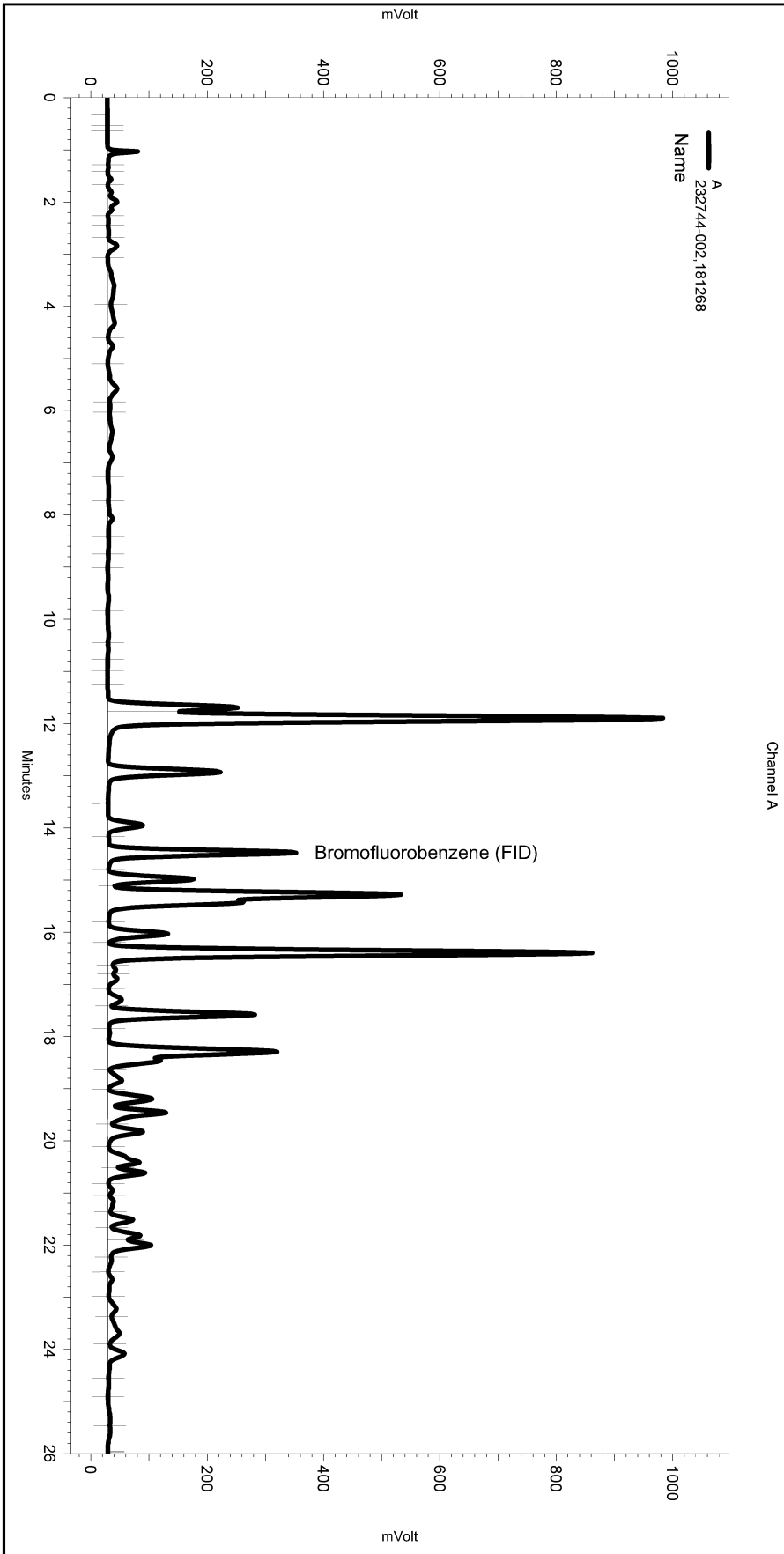
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,261	102	66-120	5	25

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

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\318.seq
 Sample Name: 232744-002,181268
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\318-012
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbx313r.met

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



 ---< 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

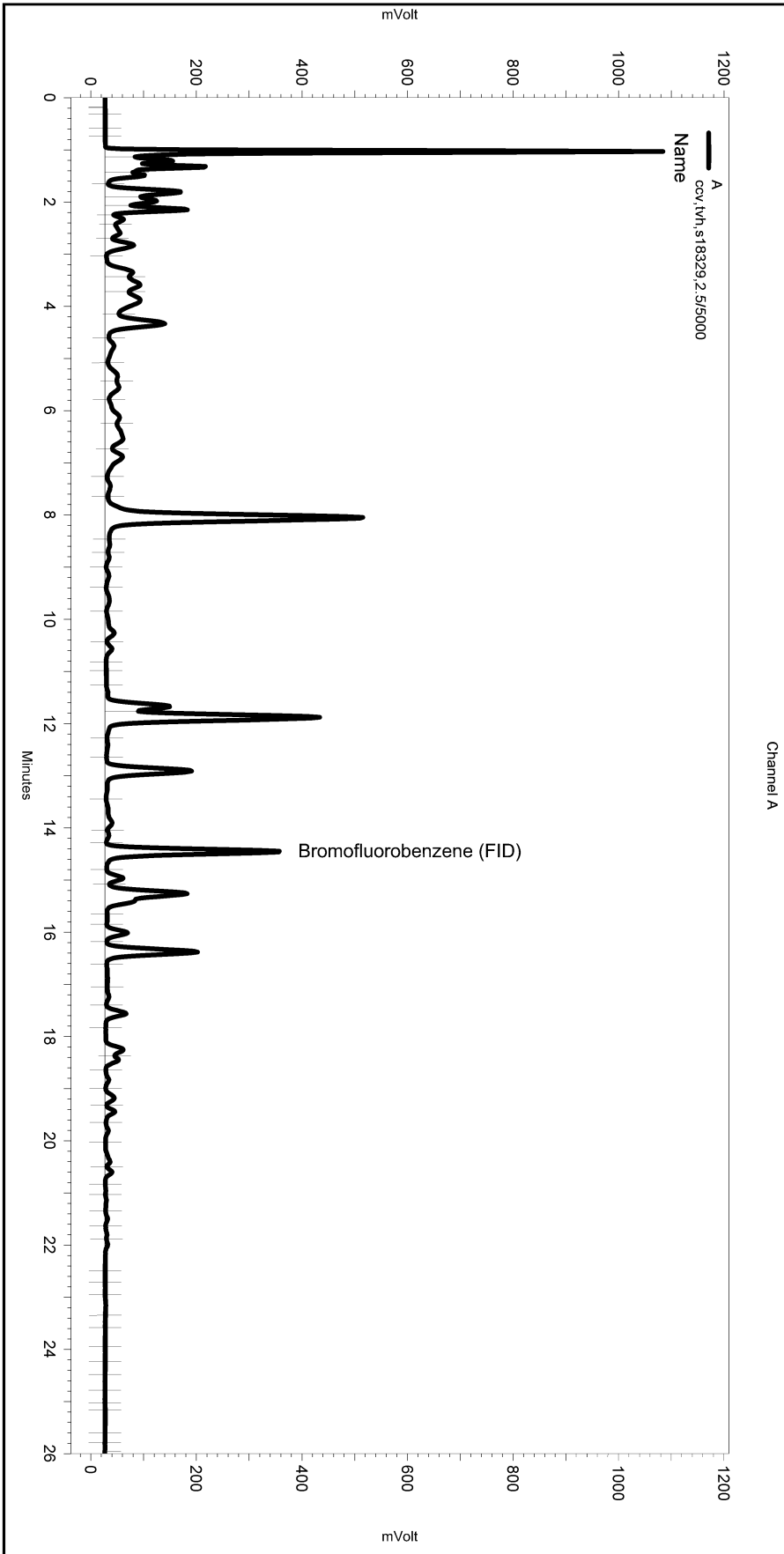
Manual Integration Fixes

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

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

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\318.seq
 Sample Name: ccv,tvh,s18329,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\318-002
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbx313r.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.10047\318-002_6564.tmp

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

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

Field ID: VW-1 Analyzed: 11/15/11
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 232744-001

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	81	68-120

Field ID: VW-2 Analyzed: 11/15/11
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 232744-002

Analyte	Result	RL
Diesel C10-C24	440 Y	50
Motor Oil C24-C36	ND	300

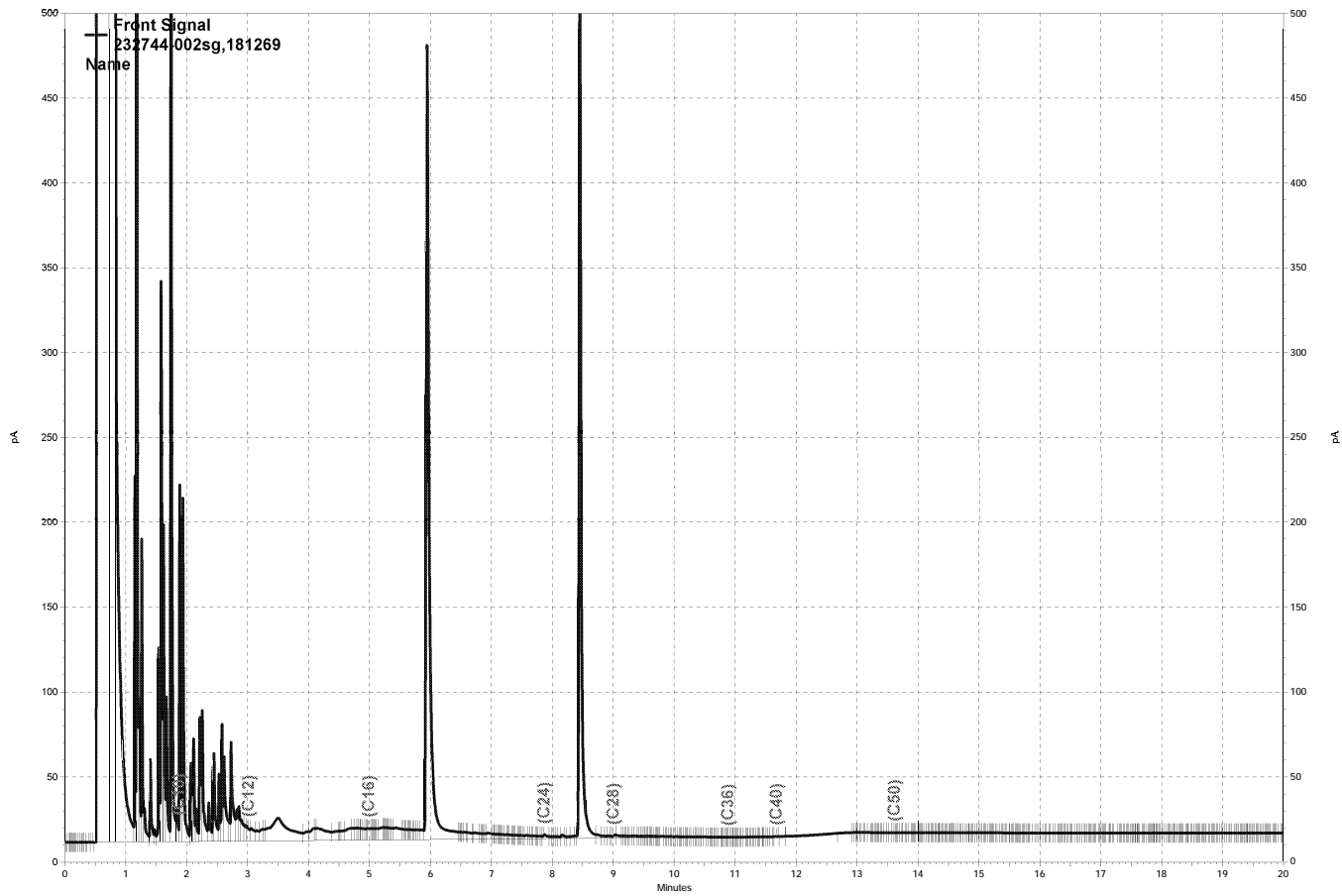
Surrogate	%REC	Limits
o-Terphenyl	79	68-120

Type: BLANK Analyzed: 11/16/11
 Lab ID: QC618606 Cleanup Method: EPA 3630C

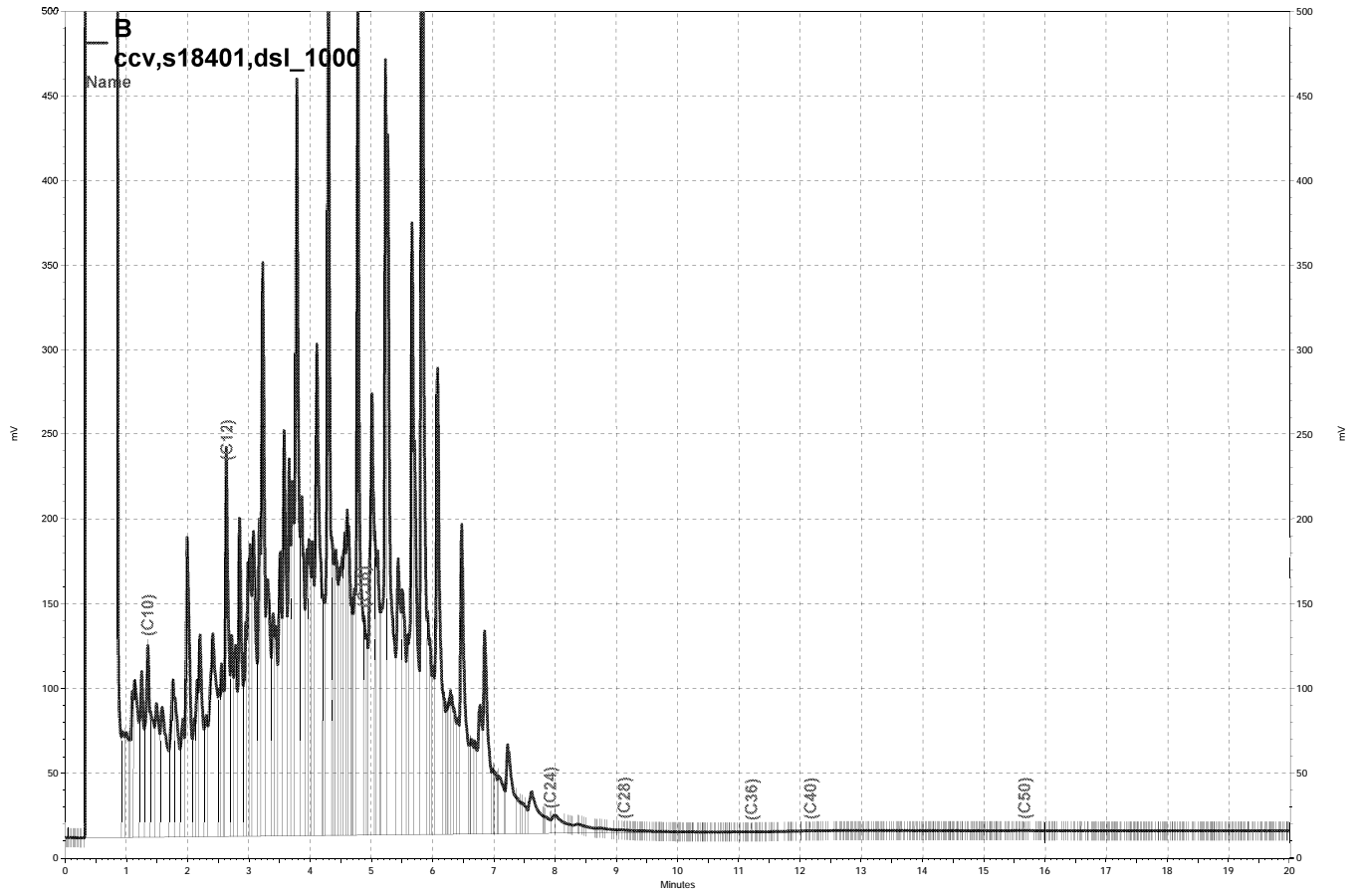
Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	88	68-120

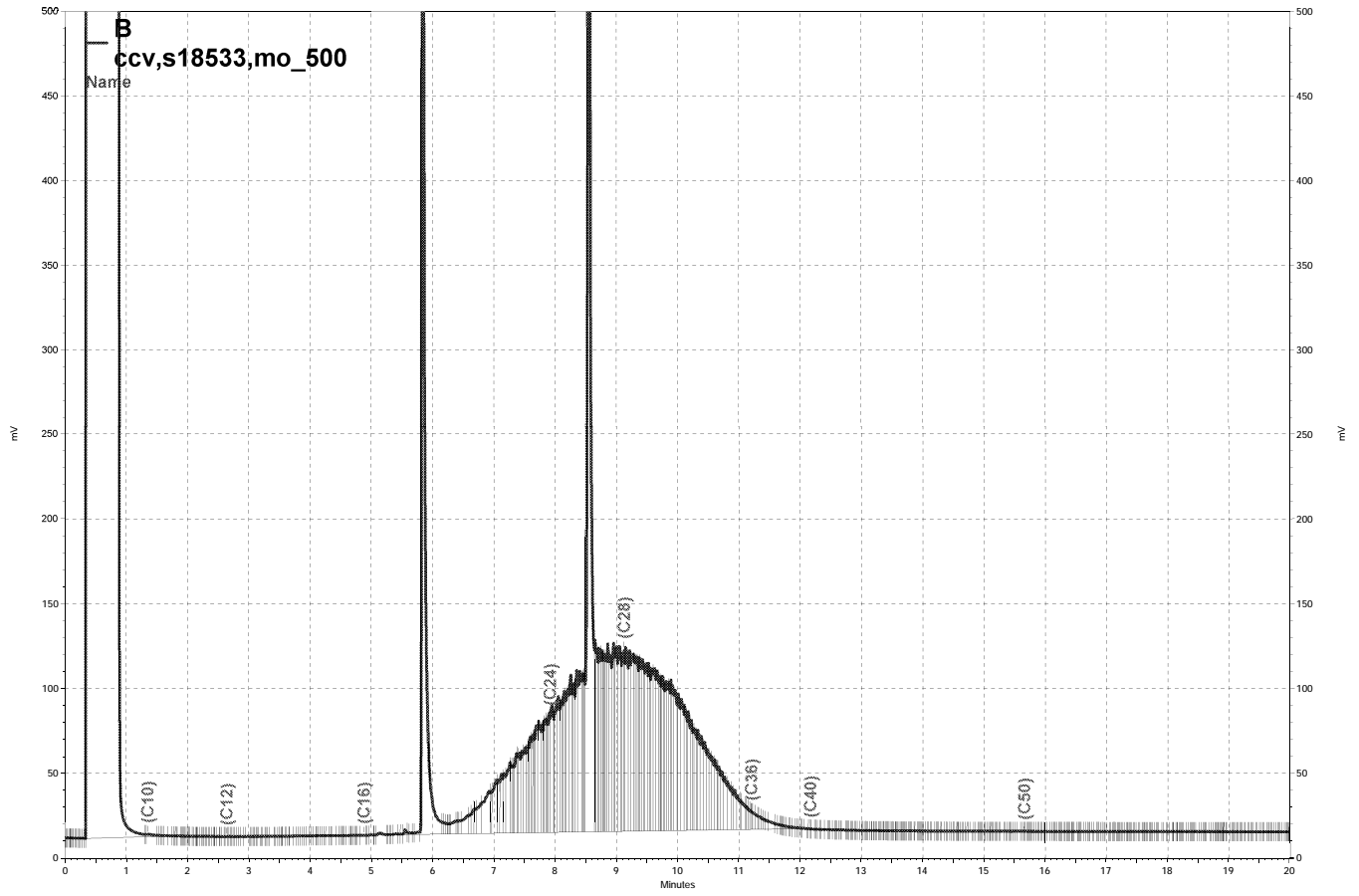
Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit



\\lms\gdrive\ezchrom\Projects\GC27\Data\319a019.dat, Front Signal



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\318b073, B



\\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
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
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

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

Field ID: VW-1
Type: SAMPLE

Lab ID: 232744-001

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	85	47-120
Decachlorobiphenyl	73	35-120

Field ID: VW-2
Type: SAMPLE

Lab ID: 232744-002

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	78	47-120
Decachlorobiphenyl	61	35-120

Type: BLANK

Lab ID: QC618620

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	96	47-120
Decachlorobiphenyl	108	35-120

ND= Not Detected
RL= Reporting Limit

Wickham, Jerry, Env. Health

From: Peter Langtry [plangtry@cornerstoneearth.com]
Sent: Thursday, November 17, 2011 9:47 AM
To: Wickham, Jerry, Env. Health
Subject: FW: AYC - C&T Reports (232744)
Attachments: 232744_level2.pdf

Sincerely,

Peter Langtry, P.G., C.E.G.
Principal Geologist



2737 North Main Street, Unit 10 | Walnut Creek, CA 94597
T 925-988-9500, Ext. 11 | F 925-988-9501
C 925.817.8814
E plangtry@cornerstoneearth.com

From: Logan Medeiros [<mailto:ldmediros@rockridgegeo.com>]
Sent: Wednesday, November 16, 2011 4:28 PM
To: Peter Langtry
Cc: nallen@sandis.net; mkuykendall@sandis.net; Jacob B. Lee; Miller, Charles GSA - Technical Service Department (Charles.Miller@acgov.org)
Subject: RE: AYC - C&T Reports (232744)

Peter,

Attached are the complete analytical results for the water samples collected from the vaults.

Thanks,
Logan

From: Logan Medeiros
Sent: Tuesday, November 15, 2011 5:50 PM
To: 'Peter Langtry' (plangtry@cornerstoneearth.com)
Cc: nallen@sandis.net; mkuykendall@sandis.net; jlee@cornerstoneearth.com; Miller, Charles GSA - Technical Service Department (Charles.Miller@acgov.org)
Subject: FW: AYC - C&T Reports (232744)

Peter,

Attached are the VOC results for the water samples from the vaults. We should get the remaining results tomorrow.

Thanks,
Logan

Logan D. Medeiros, P.E.
Senior Project Engineer



4379 Piedmont Avenue | Oakland, CA 94611
510-520-4329

ldmedeiros@rockridgegeo.com

www.rockridgegeo.com

From: Mike J. Dahlquist [<mailto:mike.dahlquist@ctberk.com>]

Sent: Tuesday, November 15, 2011 5:36 PM

To: Logan Medeiros

Subject: AYC - C&T Reports (232744)

Hi Logan. Attached is a PDF version of the reports for C&T job 232744.

C&T sends its e-reports via the Internet as Portable Document Format (PDF) files. Reports in this format, when accompanied by a signed cover page, are considered official reports. **No hardcopy reports will be sent either by fax or U.S. Postal Service unless otherwise requested.** You may distribute your PDF files electronically or as printed hardcopies, as long as they are distributed in their entirety.

Email compiled and sent 11/15/11 05:35 PM.