

Oilfield Environmental and Compliance, INC.



RO 2606

Sabra Ambrose  
CalRecycle  
432 Geranium Circle  
Galt, CA 95632, CA 95814

03 March 2011

RE: North Port of Oakland

Work Order: 1100913

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 24-Feb-11 10:40 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Race", is written over a horizontal line.

Lisa Race

Laboratory Manager



Oilfield Environmental and Compliance, INC.

CalRecycle 432 Geranium Circle Galt, CA 95632 CA, 95814	Project: North Port of Oakland Project Number: 01-CR-0034 Project Manager: Sabra Ambrose	Reported: 03-Mar-11 13:36
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VW-1	1100913-01	Air	18-Feb-11 10:07	24-Feb-11 10:40
MW-7	1100913-02	Air	18-Feb-11 10:15	24-Feb-11 10:40
VW-9	1100913-03	Air	18-Feb-11 10:35	24-Feb-11 10:40

Oilfield Environmental and Compliance

307 Roemer Way, Suite 300, Santa Maria, CA 93454

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CalRecycle 432 Geranium Circle Galt, CA 95632 CA, 95814	Project: North Port of Oakland Project Number: 01-CR-0034 Project Manager: Sabra Ambrose	Reported: 03-Mar-11 13:36
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VW-1  
1100913-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Sulfur Compounds by EPA 15/16**

Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A103067	24-Feb-11	24-Feb-11	EPA 15/16	
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**Volatile Organic Compounds by EPA Method TO-15**

**R-05**

Acetone	ND	10	ppbv	20	A103041	01-Mar-11	01-Mar-11	TO-15 mod.	
Benzene	ND	10	"	"	"	"	"	"	
Benzyl chloride	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Bromomethane	ND	40	"	"	"	"	"	"	
1,3-Butadiene	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Chloroform	ND	10	"	"	"	"	"	"	
Chloromethane	ND	20	"	"	"	"	"	"	
Cyclohexane	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	10	"	"	"	"	"	"	

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VW-1  
1100913-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method TO-15

R-05

1,1-Difluoroethane	ND	20	ppbv	20	A103041	01-Mar-11	01-Mar-11	TO-15 mod.	
Diisopropyl Ether	ND	10	"	"	"	"	"	"	
1,4-Dioxane	ND	10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
Ethyl Acetate	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	10	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
Heptane	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
<b>Hexane</b>	<b>98</b>	10	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropyl alcohol	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Methyl Ethyl Ketone	ND	10	"	"	"	"	"	"	
Methyl Isobutyl Ketone	ND	10	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	10	"	"	"	"	"	"	
Propylene	ND	10	"	"	"	"	"	"	
Styrene	ND	10	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	10	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	10	"	"	"	"	"	"	
Tetrahydrofuran	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>17</b>	10	"	"	"	"	"	"	

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VW-1  
1100913-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Oilfield Environmental and Compliance

Volatile Organic Compounds by EPA Method TO-15 R-05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Xylenes (total)	ND	10	ppbv	20	A103041	01-Mar-11	01-Mar-11	TO-15 mod.	
Surrogate: Dibromofluoromethane		136 %	49-151		"	"	"	"	
Surrogate: Toluene-d8		112 %	37-180		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	67-133		"	"	"	"	

Fixed Gases by ASTM 1946

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oxygen	4.1	0.10	%V/V air	1	A103046	24-Feb-11	24-Feb-11	ASTM 1946	
Nitrogen	38	0.10	"	"	"	"	"	"	
Carbon Dioxide	6.1	0.10	"	"	"	"	"	"	
Carbon Monoxide	ND	0.10	"	"	"	"	"	"	
Methane	51	0.10	"	"	"	"	"	"	

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**MW-7**  
**1100913-02 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Sulfur Compounds by EPA 15/16**

Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A103067	24-Feb-11	24-Feb-11	EPA 15/16	
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**Volatile Organic Compounds by EPA Method TO-15**

**R-05**

Acetone	ND	10	ppbv	20	A103041	01-Mar-11	01-Mar-11	TO-15 mod.	
Benzene	ND	10	"	"	"	"	"	"	
Benzyl chloride	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Bromomethane	ND	40	"	"	"	"	"	"	
1,3-Butadiene	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Chloroform	ND	10	"	"	"	"	"	"	
Chloromethane	ND	20	"	"	"	"	"	"	
Cyclohexane	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	10	"	"	"	"	"	"	
1,1-Difluoroethane	ND	20	"	"	"	"	"	"	
Diisopropyl Ether	ND	10	"	"	"	"	"	"	
1,4-Dioxane	ND	10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	

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**MW-7**  
**1100913-02 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Volatile Organic Compounds by EPA Method TO-15**

**R-05**

Ethyl Acetate	ND	10	ppbv	20	A103041	01-Mar-11	01-Mar-11	TO-15 mod.	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	10	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
Heptane	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
<b>Hexane</b>	<b>43</b>	10	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropyl alcohol	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Methyl Ethyl Ketone	ND	10	"	"	"	"	"	"	
Methyl Isobutyl Ketone	ND	10	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	10	"	"	"	"	"	"	
Propylene	ND	10	"	"	"	"	"	"	
Styrene	ND	10	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	10	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	10	"	"	"	"	"	"	
Tetrahydrofuran	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

111 % 49-151  
113 % 37-180  
124 % 67-133

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**MW-7**  
**1100913-02 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Fixed Gases by ASTM 1946**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oxygen	11	0.10	%V/V air	1	A103046	24-Feb-11	24-Feb-11	ASTM 1946	
Nitrogen	54	0.10	"	"	"	"	"	"	
Carbon Dioxide	6.3	0.10	"	"	"	"	"	"	
Carbon Monoxide	ND	0.10	"	"	"	"	"	"	
Methane	27	0.10	"	"	"	"	"	"	

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**VW-9**  
**1100913-03 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Sulfur Compounds by EPA 15/16**

Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A103067	24-Feb-11	24-Feb-11	EPA 15/16	
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**Volatile Organic Compounds by EPA Method TO-15**

**R-05**

Acetone	ND	10	ppbv	20	A103041	01-Mar-11	01-Mar-11	TO-15 mod.	
Benzene	ND	10	"	"	"	"	"	"	
Benzyl chloride	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Bromomethane	ND	40	"	"	"	"	"	"	
1,3-Butadiene	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Chloroform	ND	10	"	"	"	"	"	"	
Chloromethane	ND	20	"	"	"	"	"	"	
Cyclohexane	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	10	"	"	"	"	"	"	
1,1-Difluoroethane	ND	20	"	"	"	"	"	"	
Diisopropyl Ether	ND	10	"	"	"	"	"	"	
1,4-Dioxane	ND	10	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	

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**VW-9**  
**1100913-03 (Air)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Volatile Organic Compounds by EPA Method TO-15**

**R-05**

Ethyl Acetate	ND	10	ppbv	20	A103041	01-Mar-11	01-Mar-11	TO-15 mod.	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Ethyl t-Butyl Ether	ND	10	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
Heptane	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexane	ND	10	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropyl alcohol	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Methyl Ethyl Ketone	ND	10	"	"	"	"	"	"	
Methyl Isobutyl Ketone	ND	10	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	10	"	"	"	"	"	"	
Propylene	ND	10	"	"	"	"	"	"	
Styrene	ND	10	"	"	"	"	"	"	
t-Amyl Methyl Ether	ND	10	"	"	"	"	"	"	
t-Butyl alcohol	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	10	"	"	"	"	"	"	
Tetrahydrofuran	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		139 %		49-151	"	"	"	"	
Surrogate: Toluene-d8		108 %		37-180	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %		67-133	"	"	"	"	

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

CalRecycle 432 Geranium Circle Galt, CA 95632 CA, 95814	Project: North Port of Oakland Project Number: 01-CR-0034 Project Manager: Sabra Ambrose	Reported: 03-Mar-11 13:36
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VW-9  
1100913-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Fixed Gases by ASTM 1946**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oxygen	21	0.10	%V/V air	1	A103046	24-Feb-11	24-Feb-11	ASTM 1946	
Nitrogen	75	0.10	"	"	"	"	"	"	"
Carbon Dioxide	0.22	0.10	"	"	"	"	"	"	"
Carbon Monoxide	ND	0.10	"	"	"	"	"	"	"
Methane	1.7	0.10	"	"	"	"	"	"	"

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### Sulfur Compounds by EPA 15/16 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A103067 - None-gases

<b>Blank (A103067-BLK1)</b>				Prepared & Analyzed: 24-Feb-11						
Hydrogen Sulfide (H2S)	ND	0.050	ppmv							
<b>LCS (A103067-BS1)</b>				Prepared & Analyzed: 24-Feb-11						
Hydrogen Sulfide (H2S)	40.4	0.050	ppmv	41.0		98.6	70-130			
<b>Duplicate (A103067-DUP1)</b>				Source: 1100913-03		Prepared & Analyzed: 24-Feb-11				
Hydrogen Sulfide (H2S)	ND	0.050	ppmv		ND				30	



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CalRecycle 432 Geranium Circle Galt, CA 95632 CA, 95814	Project: North Port of Oakland Project Number: 01-CR-0034 Project Manager: Sabra Ambrose	Reported: 03-Mar-11 13:36
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**Volatile Organic Compounds by EPA Method TO-15 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch A103041 - EPA TO-15 prep**

Prepared & Analyzed: 01-Mar-11

**Blank (A103041-BLK1)**

Acetone	ND	0.50	ppbv
Benzene	ND	0.50	"
Benzyl chloride	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	2.0	"
1,3-Butadiene	ND	0.50	"
Carbon disulfide	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"
Chloroform	ND	0.50	"
Chloromethane	ND	1.0	"
Cyclohexane	ND	0.50	"
Dibromochloromethane	ND	0.50	"
1,2-Dibromoethane (EDB)	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	0.50	"
cis-1,2-Dichloroethene	ND	0.50	"
trans-1,2-Dichloroethene	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.50	"
1,1-Difluoroethane	ND	1.0	"
Diisopropyl Ether	ND	0.50	"
1,4-Dioxane	ND	0.50	"
Ethanol	ND	0.50	"
Ethyl Acetate	ND	0.50	"
Ethylbenzene	ND	0.50	"
Ethyl t-Butyl Ether	ND	0.50	"
4-Ethyltoluene	ND	0.50	"
Heptane	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Hexane	ND	0.50	"

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CalRecycle  
432 Geranium Circle  
Galt, CA 95632 CA, 95814

Project: North Port of Oakland  
Project Number: 01-CR-0034  
Project Manager: Sabra Ambrose

Reported:  
03-Mar-11 13:36

**Volatile Organic Compounds by EPA Method TO-15 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch A103041 - EPA TO-15 prep**

Blank (A103041-BLK1)

Prepared & Analyzed: 01-Mar-11

2-Hexanone	ND	0.50	ppbv							
Isopropyl alcohol	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Methyl Ethyl Ketone	ND	0.50	"							
Methyl Isobutyl Ketone	ND	0.50	"							
Methyl-t-butyl ether	ND	0.50	"							
Propylene	ND	0.50	"							
Styrene	ND	0.50	"							
t-Amyl Methyl Ether	ND	0.50	"							
t-Butyl alcohol	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene (PCE)	ND	0.50	"							
Tetrahydrofuran	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene (TCE)	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
1,1,2-Trichlorotrifluoroethane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl acetate	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	36		"	25.0		144	49-151			
Surrogate: Toluene-d8	27		"	25.0		109	37-180			
Surrogate: 4-Bromofluorobenzene	29		"	25.0		118	67-133			

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CalRecycle 432 Geranium Circle Galt, CA 95632 CA, 95814	Project: North Port of Oakland Project Number: 01-CR-0034 Project Manager: Sabra Ambrose	Reported: 03-Mar-11 13:36
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**Volatile Organic Compounds by EPA Method TO-15 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch A103041 - EPA TO-15 prep**

LCS (A103041-BS1)				Prepared & Analyzed: 01-Mar-11						
Benzene	4.89	0.50	ppbv	4.05		121	61-130			
Bromomethane	4.31	2.0	"	3.70		116	11-195			
Carbon tetrachloride	5.04	0.50	"	4.75		106	62-144			
Chlorobenzene	4.64	0.50	"	4.30		108	72-119			
Chloroform	5.00	0.50	"	4.50		111	62-139			
1,2-Dibromoethane (EDB)	5.07	0.50	"	4.45		114	73-130			
1,3-Dichlorobenzene	4.46	0.50	"	4.15		107	51-141			
1,4-Dichlorobenzene	4.15	0.50	"	4.20		98.8	43-146			
Dichlorodifluoromethane	4.62	0.50	"	4.90		94.3	44-152			
1,2-Dichloroethane	4.90	0.50	"	3.90		126	42-158			
1,1-Dichloroethene	5.02	0.50	"	4.45		113	54-133			
1,2-Dichloropropane	5.17	0.50	"	5.15		100	55-149			
Ethanol	4.49	0.50	"	5.00		89.8	44-154			
Ethylbenzene	4.91	0.50	"	4.55		108	69-129			
Methylene chloride	4.78	0.50	"	5.15		92.8	61-137			
Methyl-t-butyl ether	4.58	0.50	"	4.55		101	62-134			
Styrene	5.06	0.50	"	4.15		122	60-130			
Tetrachloroethene (PCE)	4.49	0.50	"	4.45		101	69-127			
Toluene	5.05	0.50	"	4.25		119	51-140			
1,1,1-Trichloroethane	4.92	0.50	"	5.00		98.4	69-139			
Trichloroethene (TCE)	4.91	0.50	"	4.05		121	63-138			
Trichlorofluoromethane	5.25	0.50	"	4.35		121	27-187			
Vinyl chloride	4.82	0.50	"	4.30		112	34-166			
Xylenes (total)	14.1	0.50	"	13.6		104	61-136			
Surrogate: Dibromofluoromethane	29		"	25.0		117	49-151			
Surrogate: Toluene-d8	26		"	25.0		104	37-180			
Surrogate: 4-Bromofluorobenzene	30		"	25.0		119	67-133			

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Oilfield Environmental and Compliance, INC.

CalRecycle  
432 Geranium Circle  
Galt, CA 95632 CA, 95814

Project: North Port of Oakland  
Project Number: 01-CR-0034  
Project Manager: Sabra Ambrose

Reported:  
03-Mar-11 13:36

**Volatile Organic Compounds by EPA Method TO-15 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch A103041 - EPA TO-15 prep**

**LCS (A103041-BS2)**

Prepared & Analyzed: 01-Mar-11

Diisopropyl Ether	4.54	0.50	ppbv	5.00		90.8	78-127			
Ethyl t-Butyl Ether	4.77	0.50	"	5.00		95.4	81-134			
t-Amyl Methyl Ether	4.17	0.50	"	5.00		83.4	75-141			
t-Butyl alcohol	3.95	0.50	"	5.00		79.0	74-144			
Surrogate: Dibromofluoromethane	28		"	25.0		113	49-151			
Surrogate: Toluene-d8	27		"	25.0		108	37-180			
Surrogate: 4-Bromofluorobenzene	20		"	25.0		81.4	67-133			

**Duplicate (A103041-DUP1)**

Source: 1100913-02

Prepared & Analyzed: 01-Mar-11

**R-05**

Acetone	ND	10	ppbv		ND				25	
Benzene	ND	10	"		ND				25	
Benzyl chloride	ND	10	"		ND				25	
Bromodichloromethane	ND	10	"		ND				25	
Bromoform	ND	10	"		ND				25	
Bromomethane	ND	40	"		ND				25	
1,3-Butadiene	ND	10	"		ND				25	
Carbon disulfide	ND	10	"		ND				25	
Carbon tetrachloride	ND	10	"		ND				25	
Chlorobenzene	ND	10	"		ND				25	
Chloroethane	ND	10	"		ND				25	
Chloroform	ND	10	"		ND				25	
Chloromethane	ND	20	"		ND				25	
Cyclohexane	ND	10	"		ND				25	
Dibromochloromethane	ND	10	"		ND				25	
1,2-Dibromoethane (EDB)	ND	10	"		ND				25	
1,2-Dichlorobenzene	ND	10	"		ND				25	
1,3-Dichlorobenzene	ND	10	"		ND				25	
1,4-Dichlorobenzene	ND	10	"		ND				25	
Dichlorodifluoromethane	ND	10	"		ND				25	
1,1-Dichloroethane	ND	10	"		ND				25	
1,2-Dichloroethane	ND	10	"		ND				25	
1,1-Dichloroethene	ND	10	"		ND				25	
cis-1,2-Dichloroethene	ND	10	"		ND				25	
trans-1,2-Dichloroethene	ND	10	"		ND				25	
1,2-Dichloropropane	ND	10	"		ND				25	
cis-1,3-Dichloropropene	ND	10	"		ND				25	
trans-1,3-Dichloropropene	ND	10	"		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	10	"		ND				25	
1,1-Difluoroethane	ND	20	"		ND				25	
Diisopropyl Ether	ND	10	"		ND				25	
1,4-Dioxane	ND	10	"		ND				25	

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CalRecycle 432 Geranium Circle Galt, CA 95632 CA, 95814	Project: North Port of Oakland Project Number: 01-CR-0034 Project Manager: Sabra Ambrose	Reported: 03-Mar-11 13:36
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**Volatile Organic Compounds by EPA Method TO-15 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch A103041 - EPA TO-15 prep**

Duplicate (A103041-DUP1)	Source: 1100913-02			Prepared & Analyzed: 01-Mar-11			R-05
Ethanol	ND	10	ppbv		ND		25
Ethyl Acetate	ND	10	"		ND		25
Ethylbenzene	ND	10	"		ND		25
Ethyl t-Butyl Ether	ND	10	"		ND		25
4-Ethyltoluene	ND	10	"		ND		25
Heptane	ND	10	"		ND		25
Hexachlorobutadiene	ND	10	"		ND		25
Hexane	43.2	10	"		42.6		1.40 25
2-Hexanone	ND	10	"		ND		25
Isopropyl alcohol	ND	10	"		ND		25
Methylene chloride	ND	10	"		ND		25
Methyl Ethyl Ketone	ND	10	"		ND		25
Methyl Isobutyl Ketone	ND	10	"		ND		25
Methyl-t-butyl ether	ND	10	"		ND		25
Propylene	ND	10	"		ND		25
Styrene	ND	10	"		ND		25
t-Amyl Methyl Ether	ND	10	"		ND		25
t-Butyl alcohol	ND	10	"		ND		25
1,1,1,2-Tetrachloroethane	ND	10	"		ND		25
1,1,2,2-Tetrachloroethane	ND	10	"		ND		25
Tetrachloroethene (PCE)	ND	10	"		ND		25
Tetrahydrofuran	ND	10	"		ND		25
Toluene	ND	10	"		ND		25
1,2,4-Trichlorobenzene	ND	10	"		ND		25
1,1,1-Trichloroethane	ND	10	"		ND		25
1,1,2-Trichloroethane	ND	10	"		ND		25
Trichloroethene (TCE)	ND	10	"		ND		25
Trichlorofluoromethane	ND	10	"		ND		25
1,1,2-Trichlorotrifluoroethane	ND	10	"		ND		25
1,2,4-Trimethylbenzene	ND	10	"		ND		25
1,3,5-Trimethylbenzene	ND	10	"		ND		25
Vinyl acetate	ND	10	"		ND		25
Vinyl chloride	ND	10	"		ND		25
Xylenes (total)	ND	10	"		ND		25
Surrogate: Dibromofluoromethane	28		"	25.0		111	49-151
Surrogate: Toluene-d8	28		"	25.0		112	37-180
Surrogate: 4-Bromofluorobenzene	31		"	25.0		123	67-133

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CalRecycle 432 Geranium Circle Galt, CA 95632 CA, 95814	Project: North Port of Oakland Project Number: 01-CR-0034 Project Manager: Sabra Ambrose	Reported: 03-Mar-11 13:36
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**Fixed Gases by ASTM 1946 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch A103046 - default air</b>										
<b>Blank (A103046-BLK1)</b>										
Prepared & Analyzed: 24-Mar-11										
Oxygen	ND	0.10	%V/V air							
Nitrogen	ND	0.10	"							
Carbon Dioxide	ND	0.10	"							
Carbon Monoxide	ND	0.10	"							
Methane	ND	0.10	"							
<b>LCS (A103046-BS1)</b>										
Prepared & Analyzed: 24-Mar-11										
Oxygen	4.0	0.10	%V/V air	4.00		98.8	70-130			
Nitrogen	5.0	0.10	"	5.00		99.4	70-130			
Carbon Dioxide	5.0	0.10	"	5.00		99.0	70-130			
Carbon Monoxide	5.0	0.10	"	5.00		101	70-130			
Methane	4.1	0.10	"	4.00		102	70-130			
<b>Duplicate (A103046-DUP1)</b>										
Source: 1100913-01										
Prepared & Analyzed: 24-Mar-11										
Oxygen	4.2	0.10	%V/V air		4.1			2.88	30	
Nitrogen	38	0.10	"		38			0.744	30	
Carbon Dioxide	6.0	0.10	"		6.1			1.15	30	
Carbon Monoxide	ND	0.10	"		ND				30	
Methane	51	0.10	"		51			0.175	30	

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CalRecycle  
432 Geranium Circle  
Galt, CA 95632 CA, 95814

Project: North Port of Oakland  
Project Number: 01-CR-0034  
Project Manager: Sabra Ambrose

**Reported:**  
03-Mar-11 13:36

### Notes and Definitions

- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Highway 33, McKittrick CA

phone: (661) 762-9143

## CHAIN OF CUSTODY

Page 1 of 1

Company: Dept of Resources Recycling & Recovery Project Name/ #: North Port of Oakland (01-02-0034)

Address: 1001 I St POB 4025 MS-10A Site:

City/State/ZIP: Sac CA 95812 Analysis Requested: Special Instructions:

Phone: 916 599 1793 Fax: 916 319 7419 E-mail: SEE BELOW

Report To: SEE BELOW Sampler: Sabra Ambrose

Send report via- FAX-  PDF-  Col/LUFT EDF-  EDD-

Turnaround Time 10 Days-  5 Days-  72 hr-  48 hr-  24 hr-  ASAP-

OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID															
OEC 22 AA1010.04	2-18-11 10:02 AM	ALR	1	VW-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OEC 035 AA1010.011	2-18-11 10:15 AM	ALR	1	MW-7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OEC 027 AA1010.018	2-18-11 10:35 AM	ALR	1	VW-9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Relinquished By: *Sabra Ambrose* Date: 2-23-11 Time: 12:34 PM

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: *FEDEX* Date: 2/24/11 Time: 1040

Received By: *[Signature]* Date: 2/24/11 Time: 1040

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments/PO#: Glenn.Young@calrecycle.ca.gov  
FAX 916 319 7528  
sabra.ambrose@calrecycle.ca.gov  
FAX 916 319 7419



# SAMPLE RECEIPT

Rev. 01/15/10

CLIENT: DEPT. OF RR & R  
CAL RECYCLE

OEC ID #: 1100913

Temp: \_\_\_\_\_ °C  
Acceptable Range: 0°C to 6°C

COC RECEIVED

DATE/TIME: 2-24-11 1040

RECEIPT LOGIN

DATE/TIME: 2-24-11 1050

REFRIGERATOR(s): VR

SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:			Yes	No	N/A	(*) PROBLEM CHAIN FORM NEEDED
<input type="checkbox"/> OEC Courier/Sampler	COC document(s) received with samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*	<input type="checkbox"/>	Custody Seals (circle): Present/ <u>Absent</u>
<input checked="" type="checkbox"/> Delivery (Other than OEC Courier)	Correct containers for analysis requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*	<input type="checkbox"/>	Samples / Coolers
<input type="checkbox"/> Samples Received on Ice	Container(s) intact and in good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*	<input type="checkbox"/>	Intact / Broken*
<input type="checkbox"/> Samples Received Outside Temp. Range*	Container label(s) consistent with COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*	<input type="checkbox"/>	Method of Shipment & Tracking # (if applicable):
<input type="checkbox"/> Samples Direct from field (Outside Temp)	OEC preservative added (**note std ID)	<input type="checkbox"/>	**	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>FedEx 8746 1516 7289</u>
<input type="checkbox"/> After-Hours Outside Drop-off [Brought Inside]	Proper preservation on sample label(s)	<input type="checkbox"/>	<input type="checkbox"/>	*	<input checked="" type="checkbox"/>	(**) OEC Preservative ID:
(Initials/Date/Time):	VOA containers free of headspace	<input type="checkbox"/>	<input type="checkbox"/>	*	<input checked="" type="checkbox"/>	Dissolved Metals Filtration: (Date/Init/Preserve ID)
	Tedlar Bags free of condensation	<input type="checkbox"/>	<input type="checkbox"/>	*	<input checked="" type="checkbox"/>	

CONTAINERS, COC CHANGES AND/OR CORRECTIONS				CHANGES AUTHORIZED BY:			
OEC ID	Client ID ***If blank, refer to CoC	Container Description	Preservative	ResCl /pH	Matrix	Date/Time Sampled ***	Comments / Remarks / Condition Notes, Etc.
<u>1-3 A</u>		<u>1- SUMA EA</u>	<u>—</u>	<u>-</u>	<u>AIR</u>		

RECEIPT LOGIN BY: ELH

RECEIPT REVIEWED BY: CA

