Mobile Geochemistry Inc.

25 February 2015

Ms. Jessica Faragalli
Kennedy/Jenks Consultants - Seattle
1191 2nd Ave, Suite 630
Seattle, WA 98101

H&P Project: KJ021115-11
Client Project: 1396024.00 / Precision Eng.

Dear Ms. Jessica Faragalli:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 11-Feb-15 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy/Jenks Consultants - Seattle	Project: KJ021115-11	
1191 2nd Ave, Suite 630	Project Number: 1396024.00 / Precision Eng.	Reported:
Seattle, WA 98101	Project Manager: Ms. Jessica Faragalli	25-Feb-15 09:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1-020715	E502034-01	Vapor	07-Feb-15	11-Feb-15
IA-SHOP-020715	E502034-02	Vapor	07-Feb-15	11-Feb-15
AMB-OUTDOOR-020715	E502034-03	Vapor	07-Feb-15	11-Feb-15

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Carlsbad, CA 92010
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Kennedy/Jenks Consultants - Seattle	Project: KJ021115-11	
1191 2nd Ave, Suite 630	Project Number: 1396024.00 / Precision Eng.	Reported:
Seattle, WA 98101	Project Manager: Ms. Jessica Faragalli	25-Feb-15 09:38

DETECTIONS SUMMARY

Sample ID: **SS-1-020715** Laboratory ID: **E502034-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Helium (LCC)	**21.0**	0.10	%	ASTM D1945M	
Acetone	**320**	4.8	ug/m3	EPA TO-15	E
Carbon disulfide	**2.2**	1.3	ug/m3	EPA TO-15	
2-Butanone (MEK)	**18**	2.4	ug/m3	EPA TO-15	
1,1,1-Trichloroethane	**4.4**	2.2	ug/m3	EPA TO-15	
Benzene	**7.0**	0.6	ug/m3	EPA TO-15	
Trichloroethene	**95**	2.2	ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	**12**	3.3	ug/m3	EPA TO-15	
Toluene	**32**	3.1	ug/m3	EPA TO-15	
Tetrachloroethene	**11**	2.8	ug/m3	EPA TO-15	
Ethylbenzene	**3.8**	1.8	ug/m3	EPA TO-15	
m,p-Xylene	**11**	1.8	ug/m3	EPA TO-15	
Styrene	**2.8**	1.7	ug/m3	EPA TO-15	
o-Xylene	**4.1**	1.8	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	**3.7**	2.0	ug/m3	EPA TO-15	

Sample ID: **IA-SHOP-020715** Laboratory ID: **E502034-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	**2.9**	1.0	ug/m3	EPA TO-15	
Chloromethane	**1.4**	0.21	ug/m3	EPA TO-15	
Vinyl chloride	**0.25**	0.13	ug/m3	EPA TO-15	
Bromomethane	**0.75**	0.39	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	**1.2**	0.56	ug/m3	EPA TO-15	
Acetone	**33**	1.2	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	**0.66**	0.35	ug/m3	EPA TO-15	
Carbon disulfide	**0.64**	0.32	ug/m3	EPA TO-15	
2-Butanone (MEK)	**3.3**	0.60	ug/m3	EPA TO-15	
Benzene	**2.6**	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	**0.45**	0.32	ug/m3	EPA TO-15	
Trichloroethene	**240**	5.5	ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	**2.3**	0.83	ug/m3	EPA TO-15	
Toluene	**45**	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	**1.6**	0.69	ug/m3	EPA TO-15	
Ethylbenzene	**5.9**	0.44	ug/m3	EPA TO-15	
m,p-Xylene	**12**	0.44	ug/m3	EPA TO-15	
Styrene	**0.66**	0.43	ug/m3	EPA TO-15	

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Sample ID: **IA-SHOP-020715** Laboratory ID: **E502034-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
o-Xylene	**5.1**	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	**2.2**	0.50	ug/m3	EPA TO-15	
1,3,5-Trimethylbenzene	**5.0**	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	**12**	0.50	ug/m3	EPA TO-15	

Sample ID: **AMB-OUTDOOR-020715** Laboratory ID: **E502034-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	**2.3**	1.0	ug/m3	EPA TO-15	
Chloromethane	**1.1**	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	**1.2**	0.56	ug/m3	EPA TO-15	
Acetone	**4.6**	1.2	ug/m3	EPA TO-15	
2-Butanone (MEK)	**0.79**	0.60	ug/m3	EPA TO-15	
Benzene	**0.67**	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	**0.40**	0.32	ug/m3	EPA TO-15	
Trichloroethene	**0.96**	0.55	ug/m3	EPA TO-15	
Toluene	**2.2**	0.76	ug/m3	EPA TO-15	
m,p-Xylene	**1.1**	0.44	ug/m3	EPA TO-15	

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Soil Gas and Vapor Analysis

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SS-1-020715 (E502034-01) Vapor Sampled: 07-Feb-15 Received: 11-Feb-15									
Helium (LCC)	**21.0**	0.10	%	1	EB51208	12-Feb-15	12-Feb-15	ASTM D1945M	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SS-1-020715 (E502034-01) Vapor Sampled: 07-Feb-15 Received: 11-Feb-15									
Dichlorodifluoromethane (F12)	ND	4.0	ug/m3	1	EB52305	23-Feb-15	23-Feb-15	EPA TO-15	
Chloromethane	ND	0.8	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	2.8	"	"	"	"	"	"	
Vinyl chloride	ND	0.5	"	"	"	"	"	"	
Bromomethane	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	1.1	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2.3	"	"	"	"	"	"	
Acetone	**320**	4.8	"	"	"	"	"	"	E
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	3.1	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1.4	"	"	"	"	"	"	
Carbon disulfide	**2.2**	1.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
2-Butanone (MEK)	**18**	2.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**4.4**	2.2	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.6	"	"	"	"	"	"	
Benzene	**7.0**	0.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.3	"	"	"	"	"	"	
Trichloroethene	**95**	2.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	2.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	**12**	3.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Toluene	**32**	3.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	3.3	"	"	"	"	"	"	
Dibromochloromethane	ND	3.5	"	"	"	"	"	"	
Tetrachloroethene	**11**	2.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	**3.8**	1.8	"	"	"	"	"	"	
m,p-Xylene	**11**	1.8	"	"	"	"	"	"	
Styrene	**2.8**	1.7	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SS-1-020715 (E502034-01) Vapor Sampled: 07-Feb-15 Received: 11-Feb-15									
o-Xylene	**4.1**	1.8	ug/m3	1	EB52305	23-Feb-15	23-Feb-15	EPA TO-15	
Bromoform	ND	4.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.8	"	"	"	"	"	"	
4-Ethyltoluene	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**3.7**	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	11	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*108 %*		*78-125*	"	"	"	"	
IA-SHOP-020715 (E502034-02) Vapor Sampled: 07-Feb-15 Received: 11-Feb-15									
Dichlorodifluoromethane (F12)	**2.9**	1.0	ug/m3	1	EB52305	23-Feb-15	23-Feb-15	EPA TO-15	
Chloromethane	**1.4**	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	**0.25**	0.13	"	"	"	"	"	"	
Bromomethane	**0.75**	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	**1.2**	0.56	"	"	"	"	"	"	
Acetone	**33**	1.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	**0.66**	0.35	"	"	"	"	"	"	
Carbon disulfide	**0.64**	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	**3.3**	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	**2.6**	0.16	"	"	"	"	"	"	
Carbon tetrachloride	**0.45**	0.32	"	"	"	"	"	"	
Trichloroethene	**240**	5.5	"	10	"	"	24-Feb-15	"	

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Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-SHOP-020715 (E502034-02) Vapor	**Sampled: 07-Feb-15**	**Received: 11-Feb-15**							
1,2-Dichloropropane	ND	0.47	ug/m3	1	EB52305	23-Feb-15	23-Feb-15	EPA TO-15	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	**2.3**	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	**45**	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	
Tetrachloroethene	**1.6**	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	**5.9**	0.44	"	"	"	"	"	"	
m,p-Xylene	**12**	0.44	"	"	"	"	"	"	
Styrene	**0.66**	0.43	"	"	"	"	"	"	
o-Xylene	**5.1**	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	**2.2**	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**5.0**	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**12**	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*78-125*	"	"	"	"	

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Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AMB-OUTDOOR-020715 (E502034-03) Vapor	**Sampled: 07-Feb-15**	**Received: 11-Feb-15**							
Dichlorodifluoromethane (F12)	**2.3**	1.0	ug/m3	1	EB52305	23-Feb-15	23-Feb-15	EPA TO-15	
Chloromethane	**1.1**	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	**1.2**	0.56	"	"	"	"	"	"	
Acetone	**4.6**	1.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	**0.79**	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	**0.67**	0.16	"	"	"	"	"	"	
Carbon tetrachloride	**0.40**	0.32	"	"	"	"	"	"	
Trichloroethene	**0.96**	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	**2.2**	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	0.86	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	**1.1**	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AMB-OUTDOOR-020715 (E502034-03) Vapor Sampled: 07-Feb-15 Received: 11-Feb-15									
o-Xylene	ND	0.44	ug/m3	1	EB52305	23-Feb-15	23-Feb-15	EPA TO-15	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*		*76-134*	"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*		*78-125*	"	"	"	"	

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Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Kennedy/Jenks Consultants - Seattle	Project: KJ021115-11	
1191 2nd Ave, Suite 630	Project Number: 1396024.00 / Precision Eng.	Reported:
Seattle, WA 98101	Project Manager: Ms. Jessica Faragalli	25-Feb-15 09:38

Soil Gas and Vapor Analysis - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB51208 - GC										
Blank (EB51208-BLK1)				Prepared & Analyzed: 12-Feb-15						
Helium (LCC)	ND	0.10	%							

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Carlsbad, CA 92010
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Seattle, WA 98101	Project Manager: Ms. Jessica Faragalli	25-Feb-15 09:38

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB52305 - TO-15										
Blank (EB52305-BLK1)				Prepared & Analyzed: 23-Feb-15						
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3							
Chloromethane	ND	0.21	"							
Dichlorotetrafluoroethane (F114)	ND	0.71	"							
Vinyl chloride	ND	0.13	"							
Bromomethane	ND	0.39	"							
Chloroethane	ND	0.27	"							
Trichlorofluoromethane (F11)	ND	0.56	"							
Acetone	ND	1.2	"							
1,1-Dichloroethene	ND	0.40	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"							
Methylene chloride (Dichloromethane)	ND	0.35	"							
Carbon disulfide	ND	0.32	"							
trans-1,2-Dichloroethene	ND	0.40	"							
1,1-Dichloroethane	ND	0.41	"							
2-Butanone (MEK)	ND	0.60	"							
cis-1,2-Dichloroethene	ND	0.40	"							
Chloroform	ND	0.25	"							
1,1,1-Trichloroethane	ND	0.55	"							
1,2-Dichloroethane (EDC)	ND	0.41	"							
Benzene	ND	0.16	"							
Carbon tetrachloride	ND	0.32	"							
Trichloroethene	ND	0.55	"							
1,2-Dichloropropane	ND	0.47	"							
Bromodichloromethane	ND	0.68	"							
cis-1,3-Dichloropropene	ND	0.46	"							
4-Methyl-2-pentanone (MIBK)	ND	0.83	"							
trans-1,3-Dichloropropene	ND	0.46	"							
Toluene	ND	0.76	"							
1,1,2-Trichloroethane	ND	0.55	"							
2-Hexanone (MBK)	ND	0.83	"							
Dibromochloromethane	ND	0.86	"							
Tetrachloroethene	ND	0.69	"							
1,2-Dibromoethane (EDB)	ND	0.78	"							
1,1,1,2-Tetrachloroethane	ND	0.70	"							

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Seattle, WA 98101	Project Manager: Ms. Jessica Faragalli	25-Feb-15 09:38

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB52305 - TO-15										
Blank (EB52305-BLK1)				Prepared & Analyzed: 23-Feb-15						
Chlorobenzene	ND	0.47	ug/m3							
Ethylbenzene	ND	0.44	"							
m,p-Xylene	ND	0.44	"							
Styrene	ND	0.43	"							
o-Xylene	ND	0.44	"							
Bromoform	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.70	"							
4-Ethyltoluene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.61	"							
1,4-Dichlorobenzene	ND	0.61	"							
1,2-Dichlorobenzene	ND	0.61	"							
1,2,4-Trichlorobenzene	ND	1.9	"							
Hexachlorobutadiene	ND	2.7	"							
Surrogate: 1,2-Dichloroethane-d4	*207*		*"*	*214*		*96.6*	*76-134*			
Surrogate: Toluene-d8	*221*		*"*	*207*		*107*	*78-125*			
LCS (EB52305-BS1)				Prepared & Analyzed: 23-Feb-15						
Dichlorodifluoromethane (F12)	11	1.0	ug/m3	10.1		112	70-130			
Vinyl chloride	5.5	0.13	"	5.20		105	70-130			
Chloroethane	5.8	0.27	"	5.36		108	70-130			
Trichlorofluoromethane (F11)	13	0.56	"	11.3		112	70-130			
1,1-Dichloroethene	8.9	0.40	"	8.08		111	70-130			
1,1,2-Trichlorotrifluoroethane (F113)	17	0.77	"	15.5		111	70-130			
Methylene chloride (Dichloromethane)	7.1	0.35	"	7.08		99.7	70-130			
trans-1,2-Dichloroethene	9.4	0.40	"	8.08		116	70-130			
1,1-Dichloroethane	9.9	0.41	"	8.24		121	70-130			
cis-1,2-Dichloroethene	9.5	0.40	"	8.00		119	70-130			
Chloroform	11	0.25	"	9.92		113	70-130			
1,1,1-Trichloroethane	12	0.55	"	11.1		106	70-130			
1,2-Dichloroethane (EDC)	8.8	0.41	"	8.24		106	70-130			
Benzene	7.5	0.16	"	6.48		115	70-130			

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Seattle, WA 98101	Project Manager: Ms. Jessica Faragalli	25-Feb-15 09:38

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB52305 - TO-15										
LCS (EB52305-BS1)				Prepared & Analyzed: 23-Feb-15						
Carbon tetrachloride	14	0.32	ug/m3	12.8		107	70-130			
Trichloroethene	11	0.55	"	11.0		95.9	70-130			
Toluene	7.6	0.76	"	7.68		98.8	70-130			
1,1,2-Trichloroethane	11	0.55	"	11.1		97.4	70-130			
Tetrachloroethene	13	0.69	"	13.8		92.9	70-130			
1,1,1,2-Tetrachloroethane	13	0.70	"	14.0		93.1	70-130			
Ethylbenzene	8.7	0.44	"	8.84		98.0	70-130			
m,p-Xylene	18	0.44	"	17.7		101	70-130			
o-Xylene	8.6	0.44	"	8.84		96.7	70-130			
1,1,2,2-Tetrachloroethane	14	0.70	"	14.0		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*231*		*"*	*214*		*108*	*70-130*			
Surrogate: Toluene-d8	*223*		*"*	*207*		*108*	*70-130*			
LCS Dup (EB52305-BSD1)				Prepared & Analyzed: 23-Feb-15						
Dichlorodifluoromethane (F12)	11	1.0	ug/m3	10.1		106	70-130	4.93	25	
Vinyl chloride	5.2	0.13	"	5.20		99.6	70-130	5.60	25	
Chloroethane	5.3	0.27	"	5.36		99.4	70-130	8.51	25	
Trichlorofluoromethane (F11)	12	0.56	"	11.3		107	70-130	4.05	25	
1,1-Dichloroethene	8.3	0.40	"	8.08		103	70-130	7.13	25	
1,1,2-Trichlorotrifluoroethane (F113)	17	0.77	"	15.5		107	70-130	3.52	25	
Methylene chloride (Dichloromethane)	6.6	0.35	"	7.08		93.2	70-130	6.71	25	
trans-1,2-Dichloroethene	8.2	0.40	"	8.08		102	70-130	13.2	25	
1,1-Dichloroethane	8.2	0.41	"	8.24		99.9	70-130	18.8	25	
cis-1,2-Dichloroethene	8.2	0.40	"	8.00		102	70-130	15.7	25	
Chloroform	11	0.25	"	9.92		107	70-130	5.33	25	
1,1,1-Trichloroethane	11	0.55	"	11.1		100	70-130	5.43	25	
1,2-Dichloroethane (EDC)	8.1	0.41	"	8.24		98.3	70-130	7.94	25	
Benzene	6.8	0.16	"	6.48		105	70-130	8.78	25	
Carbon tetrachloride	13	0.32	"	12.8		102	70-130	4.90	25	
Trichloroethene	10	0.55	"	11.0		94.8	70-130	1.20	25	
Toluene	6.8	0.76	"	7.68		88.2	70-130	11.3	25	
1,1,2-Trichloroethane	9.7	0.55	"	11.1		87.0	70-130	11.3	25	
Tetrachloroethene	12	0.69	"	13.8		86.1	70-130	7.69	25	

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Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB52305 - TO-15										
LCS Dup (EB52305-BSD1)				Prepared & Analyzed: 23-Feb-15						
1,1,1,2-Tetrachloroethane	11	0.70	ug/m3	14.0		76.5	70-130	19.5	25	
Ethylbenzene	8.4	0.44	"	8.84		95.1	70-130	2.99	25	
m,p-Xylene	17	0.44	"	17.7		98.6	70-130	2.61	25	
o-Xylene	8.1	0.44	"	8.84		92.1	70-130	4.90	25	
1,1,2,2-Tetrachloroethane	14	0.70	"	14.0		101	70-130	4.31	25	
Surrogate: 1,2-Dichloroethane-d4	*213*		*"*	*214*		*99.2*	*70-130*			
Surrogate: Toluene-d8	*204*		*"*	*207*		*98.6*	*70-130*			

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Notes and Definitions

E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 2/7/15
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: Kennedy/Jenks Consultants
Project Name / #: 1396024.00 / Precision Eng.
Lab Client Project Manager: Jessica Faragalli
Project Location: Seattle, WA
Lab Client Address: 1191 2nd Ave, Suite 630
Report E-Mail(s): josh.hoppe@kennedyjenks.com; jessica.faragalli@kennedyjenks.com
Lab Client City, State, Zip: Seattle, WA 98101
Phone Number: 206-753-3425

Sample Receipt (Lab Use Only)

Date Rec'd: 2/11/15
Control #: 150088 01
H&P Project #: KJ021115-11
Lab Work Order #: ES02034
Sample Intact: [X] Yes [ ] No [ ] See Notes Below
Receipt Gauge ID: 11167 + 1076084
Temp: 22°C
Outside Lab:
Receipt Notes/Tracking #: 1293TT61874609 7798
Lab PM Initials: SN

Reporting Requirements

[X] Standard Report [ ] Level III [ ] Level IV
[X] Excel EDD [ ] Other EDD:
[ ] CA Geotracker Global ID:

Turnaround Time

[X] 5-7 day Stnd [ ] 24-Hr Rush
[ ] 3-day Rush [ ] Mobile Lab
[ ] 48-Hr Rush [ ] Other:

Sampler Information

Sampler(s): Josh Hoppe / Craig Joseph
Signature:
Date: 2-7-15

Additional Instructions to Laboratory:

[ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

[ ] µg/L [X] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [X] TO-15	VOCs Short List / Project List [ ] 8260SV [ ] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [ ] DFA [ ] IPA [X] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SS-1-020715		02/07/15	1728 (1734)	SS	1L summa	435	-1.15	X							X					
IA-SHOP-020715		↓	1800	IA	6L summa	315	-2.54	X												
AMB-OUTDOOR-020715		↓	1810	AA	6L summa	297	-.13	X												

JCH

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Josh Hoppe	Kennedy Jenks	02/09/15	1330	Tori Unsworth	H&P	2/11/15	2:20
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 12/31/2013