



APPENDIX B

CORRECTIVE ACTION INVESTIGATION ANALYTICAL DATA



Wednesday, September 04, 2013

Fibertec Project Number: 57644
Project Identification: PSC-PETRO-CHEM /11013-000191
Submittal Date: 08/26/2013

Ms. Kellie Wing
Bureau Veritas North America, Inc.
22345 Reothel
Novi, MI 48375

Dear Ms. Wing,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

The methanol kit for sample 57644-004 (BSB-12 (8-10)) has a low mass of 7.4 grams. Results may be biased low.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

A handwritten signature in black ink, appearing to read "Daryl P. Strandbergh".

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-11 (3-5)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	1	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	10:45
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)					Aliquot ID: 57644-001A		Matrix: Soil/Solid		Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Percent Moisture (Water Content) (NN)	21		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828	

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-001		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	U	J,V-	µg/kg	1000	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
2. Acrylonitrile	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
3. Benzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
4. Bromobenzene	U		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
5. Bromochloromethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
6. Bromodichloromethane	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
7. Bromoform	U		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
8. Bromomethane	U		µg/kg	200	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
10. 2-Butanone	U		µg/kg	631	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
11. n-Butylbenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
12. sec-Butylbenzene	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
14. Carbon Disulfide	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
15. Carbon Tetrachloride	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
16. Chlorobenzene	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
17. Chloroethane	U		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
18. Chloroform	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
19. Chloromethane	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
20. Cyclohexane (NN)	330		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
21. Dibromochloromethane	U		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
23. Dibromomethane	U		µg/kg	320	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
26. 1,4-Dichlorobenzene	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
29. 1,1-Dichloroethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
30. 1,2-Dichloroethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
31. 1,1-Dichloroethene	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
34. 1,2-Dichloropropane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	

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Analytical Laboratory Report
Laboratory Project Number: 57644
Laboratory Sample Number: 57644-001

Order: 57644
Page: 3 of 36
Date: 09/04/13

Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-11 (3-5)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	1	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	10:45
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-001		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
40. Ethylbenzene	69		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
41. Ethylene Dibromide	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
43. 2-Hexanone	U		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
44. Isopropylbenzene	U		µg/kg	320	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
46. Methyl Iodide	U		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
47. Methylene Chloride	U		µg/kg	100	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
48. 2-Methylnaphthalene (NN)	678		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
49. 4-Methyl-2-pentanone	U		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
50. MTBE	U		µg/kg	320	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
51. Naphthalene	459		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
52. n-Propylbenzene	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
53. Styrene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
54. TAME (NN)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
57. Tetrachloroethene	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
58. Tetrahydrofuran (NN)	U		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
59. Toluene	310		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	315	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
62. 1,1,1-Trichloroethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
63. 1,1,2-Trichloroethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
64. Trichloroethene	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
65. Trichlorofluoromethane	U		µg/kg	63	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
68. 1,2,4-Trimethylbenzene	200		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
69. 1,3,5-Trimethylbenzene	U		µg/kg	130	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
71. Xylenes	723		µg/kg	189	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-11 (5-7)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	2	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	10:55
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)					Aliquot ID: 57644-002A		Matrix: Soil/Solid		Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1.Percent Moisture (Water Content) (NN)	18		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828	

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-002		Matrix: Soil/Solid		Analyst: CCD
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U	J,V-	µg/kg	1000	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
2. Acrylonitrile	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
3. Benzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
4. Bromobenzene	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
5. Bromochloromethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
6. Bromodichloromethane	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
7. Bromoform	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
8. Bromomethane	U		µg/kg	200	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
10. 2-Butanone	U		µg/kg	608	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
11. n-Butylbenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
12. sec-Butylbenzene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
14. Carbon Disulfide	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
15. Carbon Tetrachloride	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
16. Chlorobenzene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
17. Chloroethane	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
18. Chloroform	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
19. Chloromethane	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
20. Cyclohexane (NN)	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
21. Dibromochloromethane	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
23. Dibromomethane	U		µg/kg	300	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
26. 1,4-Dichlorobenzene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
29. 1,1-Dichloroethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
30. 1,2-Dichloroethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
31. 1,1-Dichloroethene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A
34. 1,2-Dichloropropane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-11 (5-7)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	2	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	10:55
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.					

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-002		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
40. Ethylbenzene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
41. Ethylene Dibromide	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
43. 2-Hexanone	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
44. Isopropylbenzene	U		µg/kg	300	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
46. Methyl Iodide	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
47. Methylene Chloride	U		µg/kg	100	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
48. 2-Methylnaphthalene (NN)	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
49. 4-Methyl-2-pentanone	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
50. MTBE	U		µg/kg	300	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
51. Naphthalene	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
52. n-Propylbenzene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
53. Styrene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
54. TAME (NN)	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
57. Tetrachloroethene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
58. Tetrahydrofuran (NN)	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
59. Toluene	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	304	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
62. 1,1,1-Trichloroethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
63. 1,1,2-Trichloroethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
64. Trichloroethene	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
65. Trichlorofluoromethane	U		µg/kg	60	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
68. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
69. 1,3,5-Trimethylbenzene	U		µg/kg	120	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
71. Xylenes	U		µg/kg	182	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-11 (7-11)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	3	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	11:52

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)				Aliquot ID: 57644-003		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
18. Chloroform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

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Client Identification: Bureau Veritas North America, Inc.	Sample Description: BSB-11 (7-11)	Chain of Custody: 125643
Client Project Name: PSC-PETRO-CHEM	Sample No: 3	Collect Date: 08/22/13
Client Project No: 11013-000191	Sample Matrix: Ground Water	Collect Time: 11:52

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)				Aliquot ID: 57644-003		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	3.1		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
59. Toluene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-12 (8-10)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	4	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	12:40
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)				Aliquot ID: 57644-004A			Matrix: Soil/Solid		Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Percent Moisture (Water Content) (NN)	16		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828	

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)				Aliquot ID: 57644-004			Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	U	J,V-	µg/kg	1000	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
2. Acrylonitrile	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
3. Benzene	270	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
4. Bromobenzene	U	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
5. Bromochloromethane	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
6. Bromodichloromethane	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
7. Bromoform	U	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
8. Bromomethane	U	J,J-	µg/kg	200	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
9. t-Butanol (NN)	U	J,J-	µg/kg	2500	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
10. 2-Butanone	U	J,J-	µg/kg	808	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
11. n-Butylbenzene	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
12. sec-Butylbenzene	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
13. tert-Butylbenzene	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
14. Carbon Disulfide	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
15. Carbon Tetrachloride	390	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
16. Chlorobenzene	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
17. Chloroethane	1000	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
18. Chloroform	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
19. Chloromethane	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
20. Cyclohexane (NN)	U	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
21. Dibromochloromethane	U	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
23. Dibromomethane	U	J,J-	µg/kg	400	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
24. 1,2-Dichlorobenzene	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
25. 1,3-Dichlorobenzene	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
26. 1,4-Dichlorobenzene	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
27. trans-1,4-Dichloro-2-butene (SIM)	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
28. Dichlorodifluoromethane	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
29. 1,1-Dichloroethane	6700	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
30. 1,2-Dichloroethane	82	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
31. 1,1-Dichloroethene	200	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
32. cis-1,2-Dichloroethene	1100	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
33. trans-1,2-Dichloroethene	140	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
34. 1,2-Dichloropropane	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-12 (8-10)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	4	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	12:40
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-004		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
36. trans-1,3-Dichloropropene	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
37. Diethyl Ether	U	J,J-	µg/kg	200	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
38. Diisopropyl Ether (NN)	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
39. ETBE (NN)	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
40. Ethylbenzene	11000	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
41. Ethylene Dibromide	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
42. Hexachloroethane	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
43. 2-Hexanone	U	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
44. Isopropylbenzene	U	J,J-	µg/kg	400	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
45. 4-Isopropyltoluene (NN)	U	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
46. Methyl Iodide	U	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
47. Methylene Chloride	15000	J,J-	µg/kg	100	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
48. 2-Methylnaphthalene (NN)	1300	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
49. 4-Methyl-2-pentanone	5400	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
50. MTBE	1800	J,J-	µg/kg	400	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
51. Naphthalene	1900	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
52. n-Propylbenzene	330	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
53. Styrene	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
54. TAME (NN)	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
55. 1,1,1,2-Tetrachloroethane	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
56. 1,1,2,2-Tetrachloroethane	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
57. Tetrachloroethene	2900	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
58. Tetrahydrofuran (NN)	1200	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
59. Toluene	14000	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
60. 1,2,3-Trichlorobenzene	U	J,J-	µg/kg	250	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
61. 1,2,4-Trichlorobenzene	U	J,J-	µg/kg	404	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
62. 1,1,1-Trichloroethane	2300	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
63. 1,1,2-Trichloroethane	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
64. Trichloroethene	2200	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
65. Trichlorofluoromethane	U	J,J-	µg/kg	80	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
66. 1,2,3-Trichloropropane	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
67. 1,2,3-Trimethylbenzene (NN)	U	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
68. 1,2,4-Trimethylbenzene	710	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
69. 1,3,5-Trimethylbenzene	490	J,J-	µg/kg	160	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
70. Vinyl Chloride	U	J,J-	µg/kg	50	1.4	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
71. Xylenes	39000		µg/kg	1200	14	08/29/13	V913H29C	08/30/13	V913H29C	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-12 (10-12)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	5	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	12:50
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)					Aliquot ID: 57644-005A		Matrix: Soil/Solid		Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Percent Moisture (Water Content) (NN)	30		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828	

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-005		Matrix: Soil/Solid		Analyst: CCD
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	1516		µg/kg	1000	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
2. Acrylonitrile	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
3. Benzene	750		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
4. Bromobenzene	U		µg/kg	140	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
5. Bromochloromethane	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
6. Bromodichloromethane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
7. Bromoform	U		µg/kg	140	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
8. Bromomethane	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
10. 2-Butanone	2900	J,E1	µg/kg	719	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
11. n-Butylbenzene	160		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
12. sec-Butylbenzene	170		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
14. Carbon Disulfide	U		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
15. Carbon Tetrachloride	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
16. Chlorobenzene	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
17. Chloroethane	U		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
18. Chloroform	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
19. Chloromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
20. Cyclohexane (NN)	1300		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
21. Dibromochloromethane	U		µg/kg	140	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
23. Dibromomethane	U		µg/kg	360	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
24. 1,2-Dichlorobenzene	3800		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
26. 1,4-Dichlorobenzene	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
29. 1,1-Dichloroethane	580		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
30. 1,2-Dichloroethane	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
31. 1,1-Dichloroethene	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
32. cis-1,2-Dichloroethene	1400		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
33. trans-1,2-Dichloroethene	U		µg/kg	63	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
34. 1,2-Dichloropropane	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-12 (10-12)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	5	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	12:50
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-005		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
40. Ethylbenzene	180000		µg/kg	2900	40	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
41. Ethylene Dibromide	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
43. 2-Hexanone	U		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
44. Isopropylbenzene	2800		µg/kg	360	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
45. 4-Isopropyltoluene (NN)	410		µg/kg	140	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
46. Methyl Iodide	U		µg/kg	140	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
47. Methylene Chloride	2000		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
48. 2-Methylnaphthalene (NN)	2700		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
49. 4-Methyl-2-pentanone	8200		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
50. MTBE	4700		µg/kg	360	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
51. Naphthalene	4700		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
52. n-Propylbenzene	5100		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
53. Styrene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
54. TAME (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
57. Tetrachloroethene	250		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
58. Tetrahydrofuran (NN)	4900		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
59. Toluene	350000		µg/kg	1400	40	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	359	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
62. 1,1,1-Trichloroethane	U		µg/kg	86	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
63. 1,1,2-Trichloroethane	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
64. Trichloroethene	140		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
65. Trichlorofluoromethane	U		µg/kg	71	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
67. 1,2,3-Trimethylbenzene (NN)	2100		µg/kg	140	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
68. 1,2,4-Trimethylbenzene	14000		µg/kg	5800	40	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
69. 1,3,5-Trimethylbenzene	6200		µg/kg	140	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
70. Vinyl Chloride	320		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
71. Xylenes	750000		µg/kg	8600	40	08/28/13	VJ13H28A	08/28/13	VJ13H28A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-12 (18-20)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	6	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	13:00
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)				Aliquot ID: 57644-006A		Matrix: Soil/Solid		Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	14		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)				Aliquot ID: 57644-006		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
2. Acrylonitrile	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
3. Benzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
4. Bromobenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
5. Bromochloromethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
6. Bromodichloromethane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
7. Bromoform	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
8. Bromomethane	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
10. 2-Butanone	U		µg/kg	583	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
11. n-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
12. sec-Butylbenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
14. Carbon Disulfide	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
15. Carbon Tetrachloride	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
16. Chlorobenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
17. Chloroethane	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
18. Chloroform	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
19. Chloromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
20. Cyclohexane (NN)	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
21. Dibromochloromethane	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
23. Dibromomethane	U		µg/kg	290	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
26. 1,4-Dichlorobenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
29. 1,1-Dichloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
30. 1,2-Dichloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
31. 1,1-Dichloroethene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
34. 1,2-Dichloropropane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-12 (18-20)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	6	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	13:00
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.					

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-006		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
40. Ethylbenzene	210		µg/kg	58	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
41. Ethylene Dibromide	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
43. 2-Hexanone	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
44. Isopropylbenzene	U		µg/kg	290	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
46. Methyl Iodide	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
47. Methylene Chloride	U		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
48. 2-Methylnaphthalene (NN)	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
49. 4-Methyl-2-pentanone	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
50. MTBE	U		µg/kg	290	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
51. Naphthalene	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
52. n-Propylbenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
53. Styrene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
54. TAME (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
57. Tetrachloroethene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
58. Tetrahydrofuran (NN)	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
59. Toluene	280		µg/kg	50	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	291	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
62. 1,1,1-Trichloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
63. 1,1,2-Trichloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
64. Trichloroethene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
65. Trichlorofluoromethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
68. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
69. 1,3,5-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
71. Xylenes	913		µg/kg	175	1.0	08/28/13	VJ13H28A	08/28/13	VJ13H28A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-12 (12-16)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	7	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	13:35

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-007		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	48000	J,V+	µg/L	20000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B	
2. Acrylonitrile	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
3. Benzene	130		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
4. Bromobenzene	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
5. Bromochloromethane	19		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
7. Bromoform	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
8. Bromomethane	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
9. t-Butanol (NN)	U		µg/L	10000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B	
10. 2-Butanone	18000		µg/L	10000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B	
11. n-Butylbenzene	1.1		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
16. Chlorobenzene	2.0		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
17. Chloroethane	6.5		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
18. Chloroform	2.1		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
19. Chloromethane	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
23. Dibromomethane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
24. 1,2-Dichlorobenzene	55		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
29. 1,1-Dichloroethane	U		µg/L	2000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B	
30. 1,2-Dichloroethane	42		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
31. 1,1-Dichloroethene	4.0		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
32. cis-1,2-Dichloroethene	U		µg/L	2000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B	
33. trans-1,2-Dichloroethene	43		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
37. Diethyl Ether	61		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
38. Diisopropyl Ether (NN)	45		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	
39. ETBE (NN)	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B	

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Client Identification: Bureau Veritas North America, Inc.	Sample Description: BSB-12 (12-16)	Chain of Custody: 125643
Client Project Name: PSC-PETRO-CHEM	Sample No: 7	Collect Date: 08/22/13
Client Project No: 11013-000191	Sample Matrix: Ground Water	Collect Time: 13:35

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)				Aliquot ID: 57644-007		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	2000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
42. Hexachloroethane	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
43. 2-Hexanone	14		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
44. Isopropylbenzene	24		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
46. Methyl Iodide	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
47. Methylene Chloride	U		µg/L	4000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
49. 4-Methyl-2-pentanone	84000	J,V+	µg/L	2100	2000	08/30/13	VH13H30B	08/31/13	VH13H30B
50. MTBE	14000		µg/L	4000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B
51. Naphthalene	6.3		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
52. n-Propylbenzene	29		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
53. Styrene	1.1		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
54. TAME (NN)	120		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
57. Tetrachloroethene	36		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
58. Tetrahydrofuran (NN)	43000		µg/L	10000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B
59. Toluene	24000		µg/L	2000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
62. 1,1,1-Trichloroethane	9.6		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
64. Trichloroethene	29		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
67. 1,2,3-Trimethylbenzene (NN)	37		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
68. 1,2,4-Trimethylbenzene	200		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
69. 1,3,5-Trimethylbenzene	62		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
70. Vinyl Chloride	14		µg/L	1.0	1.0	08/27/13	VI13H27B	08/28/13	VI13H27B
71. Xylenes	15000		µg/L	4000	2000	08/30/13	VH13H30B	08/31/13	VH13H30B

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-13 (3-5)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	8	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	14:45
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)					Aliquot ID: 57644-008A		Matrix: Soil/Solid	Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	15		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-008		Matrix: Soil/Solid	Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
2. Acrylonitrile	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
3. Benzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
4. Bromobenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
5. Bromochloromethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
6. Bromodichloromethane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
7. Bromoform	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
8. Bromomethane	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
10. 2-Butanone	U		µg/kg	588	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
11. n-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
12. sec-Butylbenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
14. Carbon Disulfide	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
15. Carbon Tetrachloride	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
16. Chlorobenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
17. Chloroethane	385		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
18. Chloroform	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
19. Chloromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
20. Cyclohexane (NN)	U		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
21. Dibromochloromethane	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
23. Dibromomethane	U		µg/kg	290	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
26. 1,4-Dichlorobenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
29. 1,1-Dichloroethane	510		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
30. 1,2-Dichloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
31. 1,1-Dichloroethene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
32. cis-1,2-Dichloroethene	210		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
34. 1,2-Dichloropropane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-13 (3-5)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	8	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	14:45
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.					

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-008		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
40. Ethylbenzene	2500		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
41. Ethylene Dibromide	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
43. 2-Hexanone	U		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
44. Isopropylbenzene	U		µg/kg	290	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
46. Methyl Iodide	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
47. Methylene Chloride	468		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
48. 2-Methylnaphthalene (NN)	U		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
49. 4-Methyl-2-pentanone	U		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
50. MTBE	U		µg/kg	290	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
51. Naphthalene	U		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
52. n-Propylbenzene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
53. Styrene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
54. TAME (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
57. Tetrachloroethene	210		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
58. Tetrahydrofuran (NN)	364		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
59. Toluene	1900		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	294	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
62. 1,1,1-Trichloroethane	250		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
63. 1,1,2-Trichloroethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
64. Trichloroethene	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
65. Trichlorofluoromethane	U		µg/kg	58	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
68. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
69. 1,3,5-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
71. Xylenes	7800		µg/kg	176	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-13 (5-7)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	9	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	14:50
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)				Aliquot ID: 57644-009A		Matrix: Soil/Solid		Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	19		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)				Aliquot ID: 57644-009		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
2. Acrylonitrile	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
3. Benzene	110		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
4. Bromobenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
5. Bromochloromethane	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
6. Bromodichloromethane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
7. Bromoform	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
8. Bromomethane	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
10. 2-Butanone	U		µg/kg	613	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
11. n-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
12. sec-Butylbenzene	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
14. Carbon Disulfide	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
15. Carbon Tetrachloride	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
16. Chlorobenzene	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
17. Chloroethane	U		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
18. Chloroform	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
19. Chloromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
20. Cyclohexane (NN)	U		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
21. Dibromochloromethane	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
23. Dibromomethane	U		µg/kg	310	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
24. 1,2-Dichlorobenzene	610		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
26. 1,4-Dichlorobenzene	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
29. 1,1-Dichloroethane	530		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
30. 1,2-Dichloroethane	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
31. 1,1-Dichloroethene	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
32. cis-1,2-Dichloroethene	290		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
34. 1,2-Dichloropropane	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-13 (5-7)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	9	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	14:50
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-009		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
40. Ethylbenzene	15000		µg/kg	610	10	08/28/13	VJ13H28A	08/28/13	VJ13H28A	
41. Ethylene Dibromide	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
43. 2-Hexanone	U		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
44. Isopropylbenzene	330		µg/kg	310	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
46. Methyl Iodide	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
47. Methylene Chloride	1100		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
48. 2-Methylnaphthalene (NN)	591		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
49. 4-Methyl-2-pentanone	1300		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
50. MTBE	320		µg/kg	310	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
51. Naphthalene	569		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
52. n-Propylbenzene	570		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
53. Styrene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
54. TAME (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
57. Tetrachloroethene	130		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
58. Tetrahydrofuran (NN)	1200		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
59. Toluene	8500		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	306	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
62. 1,1,1-Trichloroethane	160		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
63. 1,1,2-Trichloroethane	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
64. Trichloroethene	63		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
65. Trichlorofluoromethane	U		µg/kg	61	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
67. 1,2,3-Trimethylbenzene (NN)	190		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
68. 1,2,4-Trimethylbenzene	1300		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
69. 1,3,5-Trimethylbenzene	590		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
71. Xylenes	62000		µg/kg	1800	10	08/28/13	VJ13H28A	08/28/13	VJ13H28A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-13 (7-11)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	10	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	15:00

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)				Aliquot ID: 57644-010		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	160000		µg/L	10000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
2. Acrylonitrile	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
3. Benzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
4. Bromobenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
5. Bromochloromethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
6. Bromodichloromethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
7. Bromoform	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
8. Bromomethane	U		µg/L	2000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
9. t-Butanol (NN)	U		µg/L	5000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
10. 2-Butanone	32000		µg/L	5000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
11. n-Butylbenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
12. sec-Butylbenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
13. tert-Butylbenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
14. Carbon Disulfide	U		µg/L	500	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
15. Carbon Tetrachloride	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
16. Chlorobenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
17. Chloroethane	U		µg/L	2000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
18. Chloroform	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
19. Chloromethane	U		µg/L	1100	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
20. Cyclohexane (NN)	U		µg/L	970	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
21. Dibromochloromethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
23. Dibromomethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
24. 1,2-Dichlorobenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
25. 1,3-Dichlorobenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
26. 1,4-Dichlorobenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
28. Dichlorodifluoromethane	U		µg/L	1300	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
29. 1,1-Dichloroethane	1300		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
30. 1,2-Dichloroethane	U		µg/L	820	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
31. 1,1-Dichloroethene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
32. cis-1,2-Dichloroethene	1800		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
33. trans-1,2-Dichloroethene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
34. 1,2-Dichloropropane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
35. cis-1,3-Dichloropropene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
36. trans-1,3-Dichloropropene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
37. Diethyl Ether	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
38. Diisopropyl Ether (NN)	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A
39. ETBE (NN)	U J,V-		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-13 (7-11)	Chain of Custody:	125643
Client Project Name:	PSC-PETRO-CHEM	Sample No:	10	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	15:00

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-010		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
40. Ethylbenzene	20000		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
41. Ethylene Dibromide	U		µg/L	860	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
42. Hexachloroethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
43. 2-Hexanone	U		µg/L	2000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
44. Isopropylbenzene	U		µg/L	850	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
45. 4-Isopropyltoluene (NN)	U		µg/L	630	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
46. Methyl Iodide	U		µg/L	540	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
47. Methylene Chloride	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
48. 2-Methylnaphthalene (NN)	U		µg/L	3900	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
49. 4-Methyl-2-pentanone	180000		µg/L	1100	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
50. MTBE	27000	J,V-	µg/L	2000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
51. Naphthalene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
52. n-Propylbenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
53. Styrene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
54. TAME (NN)	U	J,V-	µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
57. Tetrachloroethene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
58. Tetrahydrofuran (NN)	85000		µg/L	5000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
59. Toluene	99000		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
60. 1,2,3-Trichlorobenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
61. 1,2,4-Trichlorobenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
62. 1,1,1-Trichloroethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
63. 1,1,2-Trichloroethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
64. Trichloroethene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
65. Trichlorofluoromethane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
66. 1,2,3-Trichloropropane	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
68. 1,2,4-Trimethylbenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
69. 1,3,5-Trimethylbenzene	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
70. Vinyl Chloride	U		µg/L	1000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	
71. Xylenes	91000		µg/L	2000	1000	08/30/13	VH13H30A	08/31/13	VH13H30A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	FB-01	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	11	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	13:45

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-011		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
6. Bromodichloromethane	7.3		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A	
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
18. Chloroform	20		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
21. Dibromochloromethane	3.1		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	FB-01	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	11	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	13:45

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-011		Matrix: Ground Water	Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
40. Ethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
50. MTBE	U		µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
59. Toluene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A
71. Xylenes	U		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A

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Analytical Laboratory Report
Laboratory Project Number: 57644
Laboratory Sample Number: 57644-012

Order: 57644
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Date: 09/04/13

Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-14 (3-5)	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	12	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	16:05
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)					Aliquot ID: 57644-012A		Matrix: Soil/Solid		Analyst: BMG
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1.Percent Moisture (Water Content) (NN)	18		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-012		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	U		µg/kg	1000	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
2. Acrylonitrile	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
3. Benzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
4. Bromobenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
5. Bromochloromethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
6. Bromodichloromethane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
7. Bromoform	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
8. Bromomethane	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
10. 2-Butanone	U		µg/kg	609	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
11. n-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
12. sec-Butylbenzene	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
14. Carbon Disulfide	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
15. Carbon Tetrachloride	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
16. Chlorobenzene	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
17. Chloroethane	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
18. Chloroform	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
19. Chloromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
20. Cyclohexane (NN)	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
21. Dibromochloromethane	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
22. 1,2-Dibromo-3-chloropropane (SIM) (N	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
23. Dibromomethane	U		µg/kg	300	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
26. 1,4-Dichlorobenzene	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
29. 1,1-Dichloroethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
30. 1,2-Dichloroethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
31. 1,1-Dichloroethene	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
34. 1,2-Dichloropropane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-14 (3-5)	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	12	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	16:05
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-012		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
40. Ethylbenzene	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
41. Ethylene Dibromide	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
43. 2-Hexanone	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
44. Isopropylbenzene	U		µg/kg	300	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
46. Methyl Iodide	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
47. Methylene Chloride	U		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
48. 2-Methylnaphthalene (NN)	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
49. 4-Methyl-2-pentanone	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
50. MTBE	U		µg/kg	300	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
51. Naphthalene	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
52. n-Propylbenzene	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
53. Styrene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
54. TAME (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
57. Tetrachloroethene	760		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
58. Tetrahydrofuran (NN)	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
59. Toluene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	304	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
62. 1,1,1-Trichloroethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
63. 1,1,2-Trichloroethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
64. Trichloroethene	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
65. Trichlorofluoromethane	U		µg/kg	60	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
68. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
69. 1,3,5-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
71. Xylenes	U		µg/kg	182	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-14 (5-7)	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	13	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	16:10
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)					Aliquot ID: 57644-013A		Matrix: Soil/Solid		Analyst: BMG
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	16		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-013		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	U		µg/kg	1000	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
2. Acrylonitrile	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
3. Benzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
4. Bromobenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
5. Bromochloromethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
6. Bromodichloromethane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
7. Bromoform	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
8. Bromomethane	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
9. t-Butanol (NN)	U		µg/kg	2500	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
10. 2-Butanone	U		µg/kg	592	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
11. n-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
12. sec-Butylbenzene	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
14. Carbon Disulfide	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
15. Carbon Tetrachloride	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
16. Chlorobenzene	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
17. Chloroethane	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
18. Chloroform	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
19. Chloromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
20. Cyclohexane (NN)	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
21. Dibromochloromethane	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
23. Dibromomethane	U		µg/kg	300	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
26. 1,4-Dichlorobenzene	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
29. 1,1-Dichloroethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
30. 1,2-Dichloroethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
31. 1,1-Dichloroethene	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
34. 1,2-Dichloropropane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-14 (5-7)	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	13	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	16:10
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-013		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
40. Ethylbenzene	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
41. Ethylene Dibromide	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
43. 2-Hexanone	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
44. Isopropylbenzene	U		µg/kg	300	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
46. Methyl Iodide	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
47. Methylene Chloride	U		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
48. 2-Methylnaphthalene (NN)	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
49. 4-Methyl-2-pentanone	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
50. MTBE	U		µg/kg	300	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
51. Naphthalene	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
52. n-Propylbenzene	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
53. Styrene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
54. TAME (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
57. Tetrachloroethene	91		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
58. Tetrahydrofuran (NN)	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
59. Toluene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	296	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
62. 1,1,1-Trichloroethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
63. 1,1,2-Trichloroethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
64. Trichloroethene	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
65. Trichlorofluoromethane	U		µg/kg	59	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
68. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
69. 1,3,5-Trimethylbenzene	U		µg/kg	120	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
71. Xylenes	U		µg/kg	177	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	

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Analytical Laboratory Report
Laboratory Project Number: 57644
Laboratory Sample Number: 57644-014

Order: 57644
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Date: 09/04/13

Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	DUP-01	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	14	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	16:15
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.				

Dry Weight Determination (ASTM D 2974-87)					Aliquot ID: 57644-014A		Matrix: Soil/Solid	Analyst: BMG	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	22		%	0.1	1.0	08/28/13	MC130828	08/29/13	MC130828

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-014		Matrix: Soil/Solid		Analyst: CCD
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
2. Acrylonitrile	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
3. Benzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
4. Bromobenzene	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
5. Bromochloromethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
6. Bromodichloromethane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
7. Bromoform	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
8. Bromomethane	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
9. 1-Butanol (NN)	U		µg/kg	2500	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
10. 2-Butanone	U		µg/kg	644	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
11. n-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
12. sec-Butylbenzene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
13. tert-Butylbenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
14. Carbon Disulfide	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
15. Carbon Tetrachloride	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
16. Chlorobenzene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
17. Chloroethane	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
18. Chloroform	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
19. Chloromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
20. Cyclohexane (NN)	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
21. Dibromochloromethane	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
23. Dibromomethane	U		µg/kg	320	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
26. 1,4-Dichlorobenzene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
29. 1,1-Dichloroethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
30. 1,2-Dichloroethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
31. 1,1-Dichloroethene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A
34. 1,2-Dichloropropane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	DUP-01	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	14	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Soil/Solid	Collect Time:	16:15
Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.					
Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.					

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B)					Aliquot ID: 57644-014		Matrix: Soil/Solid		Analyst: CCD	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
37. Diethyl Ether	U		µg/kg	200	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
38. Diisopropyl Ether (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
39. ETBE (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
40. Ethylbenzene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
41. Ethylene Dibromide	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
42. Hexachloroethane	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
43. 2-Hexanone	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
44. Isopropylbenzene	U		µg/kg	320	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
45. 4-Isopropyltoluene (NN)	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
46. Methyl Iodide	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
47. Methylene Chloride	U		µg/kg	100	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
48. 2-Methylnaphthalene (NN)	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
49. 4-Methyl-2-pentanone	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
50. MTBE	U		µg/kg	320	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
51. Naphthalene	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
52. n-Propylbenzene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
53. Styrene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
54. TAME (NN)	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
55. 1,1,1,2-Tetrachloroethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
56. 1,1,2,2-Tetrachloroethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
57. Tetrachloroethene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
58. Tetrahydrofuran (NN)	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
59. Toluene	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
60. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
61. 1,2,4-Trichlorobenzene	U		µg/kg	322	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
62. 1,1,1-Trichloroethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
63. 1,1,2-Trichloroethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
64. Trichloroethene	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
65. Trichlorofluoromethane	U		µg/kg	64	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
66. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
68. 1,2,4-Trimethylbenzene	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
69. 1,3,5-Trimethylbenzene	U		µg/kg	130	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
70. Vinyl Chloride	U		µg/kg	50	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	
71. Xylenes	U		µg/kg	193	1.0	08/27/13	VJ13H27A	08/27/13	VJ13H27A	

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-14 (7-11)	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	15	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	16:25

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-015		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	U		µg/L	20	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
2. Acrylonitrile	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
3. Benzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
4. Bromobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
5. Bromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
7. Bromoform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
8. Bromomethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
10. 2-Butanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
16. Chlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
17. Chloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
18. Chloroform	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
19. Chloromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
23. Dibromomethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
37. Diethyl Ether	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
39. ETBE (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	

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Brighton, MI 48116
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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	BSB-14 (7-11)	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	15	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	16:25

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-015		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
40. Ethylbenzene	3.1		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
42. Hexachloroethane	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
43. 2-Hexanone	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
46. Methyl Iodide	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
47. Methylene Chloride	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A	
49. 4-Methyl-2-pentanone	6.2		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
50. MTBE	220	E	µg/L	2.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
51. Naphthalene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
53. Styrene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
54. TAME (NN)	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
56. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
58. Tetrahydrofuran (NN)	7.1		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
59. Toluene	8.8		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
64. Trichloroethene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
71. Xylenes	14		µg/L	3.0	1.0	08/30/13	VI13H30A	08/30/13	VI13H30A	

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F: (231) 775-8584

Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	DUP-02	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	16	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	16:30

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-016		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
1. Acetone	U		µg/L	20	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
2. Acrylonitrile	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
3. Benzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
4. Bromobenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
5. Bromochloromethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
6. Bromodichloromethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
7. Bromoform	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
8. Bromomethane	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
9. t-Butanol (NN)	U		µg/L	50	2.0	08/30/13	VH13H30A	08/30/13	VH13H30A	
10. 2-Butanone	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
11. n-Butylbenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
12. sec-Butylbenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
13. tert-Butylbenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
14. Carbon Disulfide	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
15. Carbon Tetrachloride	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
16. Chlorobenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
17. Chloroethane	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
18. Chloroform	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
19. Chloromethane	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
20. Cyclohexane (NN)	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
21. Dibromochloromethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
23. Dibromomethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
24. 1,2-Dichlorobenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
25. 1,3-Dichlorobenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
26. 1,4-Dichlorobenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
28. Dichlorodifluoromethane	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
29. 1,1-Dichloroethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
30. 1,2-Dichloroethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
31. 1,1-Dichloroethene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
32. cis-1,2-Dichloroethene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
33. trans-1,2-Dichloroethene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
34. 1,2-Dichloropropane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
35. cis-1,3-Dichloropropene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
36. trans-1,3-Dichloropropene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
37. Diethyl Ether	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
38. Diisopropyl Ether (NN)	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
39. ETBE (NN)	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	

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Client Identification: Bureau Veritas North America, Inc.	Sample Description: DUP-02	Chain of Custody: 125644
Client Project Name: PSC-PETRO-CHEM	Sample No: 16	Collect Date: 08/22/13
Client Project No: 11013-000191	Sample Matrix: Ground Water	Collect Time: 16:30

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-016		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
40. Ethylbenzene	3.0		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
41. Ethylene Dibromide	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
42. Hexachloroethane	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
43. 2-Hexanone	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
44. Isopropylbenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
45. 4-Isopropyltoluene (NN)	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
46. Methyl Iodide	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
47. Methylene Chloride	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
48. 2-Methylnaphthalene (NN)	U		µg/L	8.0	2.0	08/30/13	VH13H30A	08/30/13	VH13H30A	
49. 4-Methyl-2-pentanone	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
50. MTBE	210		µg/L	4.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
51. Naphthalene	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
52. n-Propylbenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
53. Styrene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
54. TAME (NN)	U		µg/L	5.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
55. 1,1,1,2-Tetrachloroethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
56. 1,1,2,2-Tetrachloroethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
57. Tetrachloroethene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
58. Tetrahydrofuran (NN)	11		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
59. Toluene	9.5		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
60. 1,2,3-Trichlorobenzene	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
61. 1,2,4-Trichlorobenzene	U		µg/L	10	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
62. 1,1,1-Trichloroethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
63. 1,1,2-Trichloroethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
64. Trichloroethene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
65. Trichlorofluoromethane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
66. 1,2,3-Trichloropropane	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
68. 1,2,4-Trimethylbenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
69. 1,3,5-Trimethylbenzene	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
70. Vinyl Chloride	U		µg/L	2.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	
71. Xylenes	14		µg/L	4.0	2.0	08/30/13	VI13H30A	08/30/13	VI13H30A	

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Analytical Laboratory Report
Laboratory Project Number: 57644
Laboratory Sample Number: 57644-017

Order: 57644
Page: 34 of 36
Date: 09/04/13

Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	TB-1	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	17	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)				Aliquot ID: 57644-017		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	28	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
2. Acrylonitrile	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
3. Benzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
4. Bromobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
5. Bromochloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
6. Bromodichloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
7. Bromoform	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
8. Bromomethane	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
9. t-Butanol (NN)	U		µg/L	50	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A
10. 2-Butanone	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
11. n-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
12. sec-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
13. tert-Butylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
14. Carbon Disulfide	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
16. Chlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
17. Chloroethane	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
18. Chloroform	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
19. Chloromethane	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
20. Cyclohexane (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
21. Dibromochloromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
22. 1,2-Dibromo-3-chloropropane (SIM) (N)	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
23. Dibromomethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
37. Diethyl Ether	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
38. Diisopropyl Ether (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A
39. ETBE (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A

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Client Identification:	Bureau Veritas North America, Inc.	Sample Description:	TB-1	Chain of Custody:	125644
Client Project Name:	PSC-PETRO-CHEM	Sample No:	17	Collect Date:	08/22/13
Client Project No:	11013-000191	Sample Matrix:	Ground Water	Collect Time:	NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B)					Aliquot ID: 57644-017		Matrix: Ground Water		Analyst: JPL	
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch	
40. Ethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
41. Ethylene Dibromide	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
42. Hexachloroethane	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
43. 2-Hexanone	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
44. Isopropylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
45. 4-Isopropyltoluene (NN)	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
46. Methyl Iodide	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
47. Methylene Chloride	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
48. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	08/30/13	VH13H30A	08/30/13	VH13H30A	
49. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
50. MTBE	U		µg/L	2.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
51. Naphthalene	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
52. n-Propylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
53. Styrene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
54. TAME (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
55. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
56. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
57. Tetrachloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
58. Tetrahydrofuran (NN)	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
59. Toluene	U		µg/L	1.5	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
60. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
62. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
63. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
64. Trichloroethene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
65. Trichlorofluoromethane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
66. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
67. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
68. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
69. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
70. Vinyl Chloride	U		µg/L	1.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	
71. Xylenes	U		µg/L	3.0	1.0	08/29/13	VI13H29A	08/29/13	VI13H29A	

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Definitions/ Qualifiers:

- A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
*: Value reported is outside QA limits

Exception Summary:

- E1 : The reported value is estimated due to the presence of interference.
J- : The result is an estimated quantity, but the result may be biased low.
V- : Recovery in the associated continuing calibration verification sample (CCV) exceeds the lower control limit. Results may be biased low.
V+ : Recovery in the associated continuing calibration verification sample (CCV) exceeds the upper control limit. Results may be biased high.



Accreditation Number:

E-10395

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Fibertec Environmental Services

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Chain of Custody #
125643
PAGE 1 of 2

Client Name: KELLY WINS/BREATHWAYS		Contact Person: KELLY WINS		Project Name/Number: PSC-Remed-Chem 11013-000191	
QUOTE#		Purchase Order#			
Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)
812213	1045		B5B-11 (3-5)		5 2 Y X
812213	1053		B5B-11 (3-7)		5 2 Y X
812213	1152		B5B-11 (7-11)		4 0 3 Y X
812213	1240		B5B-12 (8-10)		5 2 Y X
812213	1250		B5B-12 (10-12)		5 2 Y X
812213	1300		B5B-12 (12-20)		5 2 Y X
812213	1335		B5B-12 (12-16)		4 0 3 Y X
812213	1445		B5B-13 (3-5)		5 2 Y X
812213	1450		B5B-13 (5-7)		5 2 Y X
812213	1500		B5B-13 (7-11)		4 0 3 Y X
Comments: INDEX OF MEMBERS REUSED 2005					
Relinquished By: <i>[Signature]</i>	Date/Time: 8/22/13 1826	Received By: <i>[Signature]</i>	Date/Time: 8/26/13 9155		
Relinquished By: <i>[Signature]</i>	Date/Time: 8/26/13 3:57	Received By: <i>[Signature]</i>	Date/Time: 8/26/13 3:57		
LAB USE ONLY: Fibertec project number: 571044 RCV'D ON ICE 9.0 TERMS & CONDITIONS ON BACK					
COC Revision: February, 2013					

Turnaround	Matrix Code	Deliverables
☐ 24 hour RUSH (surcharge applies) ☐ 48 hour RUSH (surcharge applies) ☒ 72 hour RUSH (surcharge applies) ☐ Standard (5-7 bus. days) Other Specify: _____	S Soil A Air O Oil P Wipe GW Ground Water SW Surface Water WW Waste Water Other Specify: _____	☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD
Remarks:	☐ FES Drilling Services	

Fibertec
Environmental
Services

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Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #
125644
PAGE 2 of 2

Client Name: Bureau Veritas			Contact Person: Kelli Webb			Project Name/ Number: PS-RETROCKEN 11613-000191		
Purchase Order#			QUOTE#					
LAB Sample #			Date			Time		
Client Sample #			Client Sample Descriptor			MATRIX (SEE RIGHT CORNER FOR CODE)		
						# OF CONTAINERS		
						PRESERVED (Y/N)		
						VOCs 8260B		
						PARAMETERS		
						Turnaround		
						24 hour RUSH (surcharge applied)		
						48 hour RUSH (surcharge applied)		
						72 hour RUSH (surcharge applied)		
						Standard (5-7 bus. days)		
						Other: Specify		
						Remarks:		
						FES Drilling Services		
						Matrix Code		
						Soil		
						Ground Water		
						Level 2		
						Level 3		
						Level 4		
						EDD		

Comments:

INDEX OF VARIOUS GROUNDWATER MONITORING

Relinquished By:

Date/Time

Received By:

Relinquished By:

Date/Time

Received By:

Relinquished By:

Date/Time

Received By Laboratory:

LAB USE ONLY:

Fibertec project number:

Laboratory Tracking:

Temperature at Receipt:

ICE

TERMS & CONDITIONS ON BACK

COC Revision: February, 2013

3.0



Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H30A
Page: 1 of 3
Date: 09/03/13

Preparation Batch: VI13H30A

Preparation Date: 08/30/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%		%	%	%				
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%		%	%	%				
1. Acetone	U	10.0		77.0	100	77	19 - 165		85	10	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	2.00		96.5	100	97	43 - 155		107	10	20		MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		96.5	100	96	89 - 137		100	4	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		93.9	100	94	65 - 140		96	2	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		87.8	100	88	33 - 141		90	2	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		102	100	102	84 - 144		105	3	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		72.6	100	73	66 - 136		80	9	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	5.00		150	100	150	56 - 172		146	3	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	10.0		484	1,000	46	25 - 157		63	31	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		83.1	100	83	28 - 176		97	16	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		103	100	103	63 - 149		107	4	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		99.5	100	99	61 - 143		104	5	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		100	100	100	70 - 139		105	5	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	1.00		90.4	100	90	27 - 166		95	5	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		106	100	106	70 - 140		111	5	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		98.0	100	98	88 - 126		101	3	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	5.00		81.4	100	81	33 - 172		86	6	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		92.1	100	92	66 - 138		97	5	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	2.00		90.9	100	91	45 - 153		107	16	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	1.00		96.5	100	96	75 - 137		101	5	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	1.00		81.3	100	91	42 - 156		97	6	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	1.00		111	100	111	83 - 127		115	4	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		94.2	100	94	66 - 134		108	14	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	1.00		105	100	105	67 - 148		109	4	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	1.00		103	100	103	71 - 154		109	6	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	1.00		99.4	100	99	74 - 156		103	4	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	1.00		95.9	100	96	89 - 121		101	5	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		105	100	105	47 - 164		115	9	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	5.00		102	100	102	44 - 188		106	4	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	1.00		92.1	100	92	59 - 145		98	6	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	1.00		96.6	100	97	88 - 143		99	2	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	1.00		86.8	100	87	56 - 163		91	4	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	1.00		93.0	100	93	54 - 161		97	4	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	1.00		90.1	100	90	56 - 153		94	4	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	1.00		98.2	100	98	66 - 135		103	5	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	1.00		102	100	102	75 - 136		107	5	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	1.00		105	100	105	53 - 176		110	5	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	1.00		94.2	100	94	62 - 152		101	7	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	1.00		107	100	107	81 - 144		110	3	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	1.00		108	100	108	66 - 150		112	4	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	2.00		91.8	100	92	37 - 153		96	4	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	1.00		96.3	100	96	42 - 156		101	5	20		MB-1	LCS-1	LCD-1
43. ETBE	U	1.00		95.0	100	95	49 - 150		99	4	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	1.00		100	100	100	88 - 131		104	4	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	1.00		102	100	102	86 - 131		107	5	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	5.00		119	100	119	72 - 144		122	2	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	1.00		104	100	104	37 - 171		109	5	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	5.00		89.0	100	89	37 - 183		104	16	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	1.00		101	100	101	89 - 148		105	4	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H30A
Page: 2 of 3
Date: 09/03/13

Preparation Batch: VI13H30A

Preparation Date: 08/30/13

Parameter	Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL		MB	LCS	LCD
	µg/L	µg/L			µg/L	µg/L	%	%		%	%	%	%			
Parameter	Result	PQL	Q		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL		MB	LCS	LCD
	µg/L	µg/L			µg/L	µg/L	%	%		%	%	%				
50. 4-Isopropyltoluene	U	1.00			106	100	106	86 - 142		110	4	20		MB-1	LCS-1	LCD-1
51. Methyl Iodide	U	1.00			107	100	107	38 - 159		109	2	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	5.00			88.6	100	89	38 - 149		92	3	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	U	5.00			76.5	100	76	49 - 157		103	30	20		MB-1	LCS-1	LCD-1
54. 4-Methyl-2-pentanone	U	5.00			92.2	100	92	60 - 152		104	12	20		MB-1	LCS-1	LCD-1
55. MTBE	U	2.00			94.6	100	95	54 - 144		101	6	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	5.00			99.3	100	99	64 - 158		113	13	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	1.00			99.0	100	99	84 - 146		103	4	20		MB-1	LCS-1	LCD-1
58. Styrene	U	1.00			89.7	100	90	79 - 129		97	7	20		MB-1	LCS-1	LCD-1
59. TAME	U	1.00			98.8	100	99	66 - 139		103	4	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	1.00			105	100	105	84 - 135		107	2	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	1.00			98.0	100	98	69 - 141		108	10	20		MB-1	LCS-1	LCD-1
62. Tetrachloroethene	U	1.00			101	100	101	81 - 145		104	3	20		MB-1	LCS-1	LCD-1
63. Tetrahydrofuran	U	5.00			79.3	100	79	33 - 148		94	17	20		MB-1	LCS-1	LCD-1
64. Toluene	U	1.00			95.8	100	96	77 - 135		99	3	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	5.00			106	100	106	74 - 147		116	9	20		MB-1	LCS-1	LCD-1
66. 1,2,4-Trichlorobenzene	U	5.00			111	100	111	73 - 152		117	5	20		MB-1	LCS-1	LCD-1
67. 1,1,1-Trichloroethane	U	1.00			93.1	100	93	69 - 143		99	6	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	1.00			103	100	103	84 - 122		107	4	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	1.00			100	100	100	72 - 143		105	5	20		MB-1	LCS-1	LCD-1
70. Trichlorofluoromethane	U	1.00			86.3	100	86	41 - 181		91	6	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trichloropropane	U	1.00			93.6	100	94	82 - 127		103	9	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	1.00			99.1	100	99	80 - 133		105	6	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	1.00			103	100	103	81 - 140		108	5	20		MB-1	LCS-1	LCD-1
74. 1,3,5-Trimethylbenzene	U	1.00			103	100	103	82 - 140		107	4	20		MB-1	LCS-1	LCD-1
75. Vinyl Chloride	U	1.00			98.3	100	98	40 - 174		92	4	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	1.00			200	200	100	86 - 133		105	5	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	1.00			92.5	100	92	85 - 131		95	3	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H30A
Page: 3 of 3
Date: 09/03/13

Preparation Batch: VI13H30A

Preparation Date: 08/30/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code			
	Result	PQL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL		MB	LCS	LCD	
	µg/L	µg/L	Q	µg/L	µg/L	%	%		Q	%	%	Q				
System Monitoring Compounds (Surrogates):	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code			
	Result	Spike	Rec.	Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL		MB	LCS	LCD	
	µg/L	µg/L	%	Q	µg/L	µg/L	%	%		Q	%	%	Q			
1. Dibromofluoromethane(S)	47.6	50.0	95		47.6	50.0	96	67 - 130			95	1	20	MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	47.7	50.0	95		46.0	50.0	92	58 - 133			92	0	20	MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	48.1	50.0	96		47.6	50.0	95	77 - 114			96	1	20	MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	47.2	50.0	94		48.0	50.0	96	65 - 115			96	0	20	MB-1	LCS-1	LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 VI13H30A 08/30/13 12:22
LCS-1 VI13H30A 08/30/13 11:02
LCD-1 VI13H30A 08/30/13 11:29

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Jeffrey LeClair

Jeffrey LeClair
Chemist, Volatile Organics
Tuesday, September 03, 2013
9:53:16 AM

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

09-03-13

Batch ID: VH13H30A
Page: 1 of 3
Date: 09/03/13

Preparation Batch: VH13H30A

Preparation Date: 08/30/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL	UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%	%	%	%	%				
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL	UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%	%	%	%	%				
1. Acetone	U	10.0		110	100	110	19	165	111	1	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	1.00		125	100	125	43	155	123	2	20		MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		107	100	107	89	137	103	4	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		108	100	108	65	140	99	9	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		98.5	100	98	33	141	94	4	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		129	100	129	84	144	120	7	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		135	100	135	66	136	125	8	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	2.00		113	100	113	56	172	96	16	20		MB-1	LCS-1	LCD-1
9. 1-Butanol	U	5.00		849	1,000	85	25	157	82	4	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		86.8	100	87	28	176	86	1	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		140	100	140	83	149	129	8	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		116	100	116	61	143	105	10	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		121	100	121	70	139	114	6	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	0.500		116	100	116	27	166	113	3	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		115	100	115	70	140	109	5	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		99.6	100	100	88	126	93	7	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	2.00		176	100	176	33	172	181	3	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		113	100	113	66	138	106	6	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	1.00		112	100	112	45	153	107	5	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	0.864		118	100	118	75	137	109	8	20		MB-1	LCS-1	LCD-1
21. 4-Chlorotoluene	U	1.00		118	100	118	79	137	111	6	20		MB-1	LCS-1	LCD-1
22. Cyclohexane	U	0.973		122	100	122	42	156	118	3	20		MB-1	LCS-1	LCD-1
23. Dibromochloromethane	U	1.00		127	100	127	83	127	118	7	20		MB-1	LCS-1	LCD-1
24. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		140	100	140	66	134	133	5	20		MB-1	LCS-1	LCD-1
25. Dibromomethane	U	1.00		105	100	105	67	148	98	7	20		MB-1	LCS-1	LCD-1
26. 1,2-Dichlorobenzene	U	1.00		113	100	113	71	154	105	7	20		MB-1	LCS-1	LCD-1
27. 1,3-Dichlorobenzene	U	1.00		113	100	113	74	156	106	6	20		MB-1	LCS-1	LCD-1
28. 1,4-Dichlorobenzene	U	1.00		100	100	100	89	121	94	6	20		MB-1	LCS-1	LCD-1
29. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		150	100	150	47	164	141	6	20		MB-1	LCS-1	LCD-1
30. Dichlorodifluoromethane	U	1.33		109	100	109	44	188	103	6	20		MB-1	LCS-1	LCD-1
31. 1,1-Dichloroethane	U	1.00		101	100	101	59	145	94	7	20		MB-1	LCS-1	LCD-1
32. 1,2-Dichloroethane	U	0.820		107	100	107	68	143	100	7	20		MB-1	LCS-1	LCD-1
33. 1,1-Dichloroethene	U	1.00		118	100	118	68	163	116	2	20		MB-1	LCS-1	LCD-1
34. cis-1,2-Dichloroethene	U	1.00		109	100	109	54	161	102	7	20		MB-1	LCS-1	LCD-1
35. trans-1,2-Dichloroethene	U	1.00		108	100	108	68	153	101	7	20		MB-1	LCS-1	LCD-1
36. 1,2-Dichloropropane	U	1.00		104	100	104	66	135	96	8	20		MB-1	LCS-1	LCD-1
37. 1,3-Dichloropropane	U	1.00		112	100	112	75	136	104	7	20		MB-1	LCS-1	LCD-1
38. 2,2-Dichloropropane	U	1.00		116	100	116	53	176	103	12	20		MB-1	LCS-1	LCD-1
39. 1,1-Dichloropropene	U	1.00		105	100	105	62	152	98	7	20		MB-1	LCS-1	LCD-1
40. cis-1,3-Dichloropropene	U	1.00		124	100	124	81	144	113	9	20		MB-1	LCS-1	LCD-1
41. trans-1,3-Dichloropropene	U	1.00		130	100	130	65	150	121	7	20		MB-1	LCS-1	LCD-1
42. Diethyl Ether	U	1.00		122	100	122	37	153	120	2	20		MB-1	LCS-1	LCD-1
43. Diisopropyl Ether	U	1.00		89.5	100	90	42	158	82	9	20		MB-1	LCS-1	LCD-1
44. ETBE	U	1.00		75.6	100	76	49	150	70	8	20		MB-1	LCS-1	LCD-1
45. Ethylbenzene	U	1.00		113	100	113	88	131	104	8	20		MB-1	LCS-1	LCD-1
46. Ethylene Dibromide	U	0.863		104	100	103	86	131	96	7	20		MB-1	LCS-1	LCD-1
47. Hexachlorobutadiene	U	2.50		122	100	122	72	144	113	8	20		MB-1	LCS-1	LCD-1
48. Hexachloroethane	U	1.00		130	100	130	37	171	120	8	20		MB-1	LCS-1	LCD-1
49. 2-Hexanone	U	2.00		106	100	106	37	183	101	5	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VH13H30A
Page: 2 of 3
Date: 09/03/13

Preparation Batch: VH13H30A

Preparation Date: 08/30/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
50. Isopropylbenzene	U	0.852		117	100	117	89 - 148		108	8	20		MB-1	LCS-1	LCD-1
51. 4-Isopropyltoluene	U	0.634		129	100	129	86 - 142		119	8	20		MB-1	LCS-1	LCD-1
52. Methyl Iodide	U	0.540		109	100	109	38 - 159		102	7	20		MB-1	LCS-1	LCD-1
53. Methylene Chloride	U	1.00		95.3	100	95	38 - 140		91	4	20		MB-1	LCS-1	LCD-1
54. 2-Methylnaphthalene	4.80	1.00	*	110	100	110	49 - 157		105	5	20		MB-1	LCS-1	LCD-1
55. 4-Methyl-2-pentanone	U	1.05		133	100	133	60 - 182		128	4	20		MB-1	LCS-1	LCD-1
56. MTBE	U	2.00		66.4	100	66	54 - 144		62	6	20		MB-1	LCS-1	LCD-1
57. Naphthalene	U	1.00		131	100	131	64 - 158		123	6	20		MB-1	LCS-1	LCD-1
58. n-Propylbenzene	U	1.00		119	100	119	64 - 146		111	7	20		MB-1	LCS-1	LCD-1
59. Styrene	U	1.00		117	100	117	79 - 129		109	7	20		MB-1	LCS-1	LCD-1
60. TAME	U	1.00		57.8	100	58	66 - 133	*	54	7	20		MB-1	LCS-1	LCD-1
61. 1,1,1,2-Tetrachloroethane	U	1.00		118	100	118	84 - 135		109	8	20		MB-1	LCS-1	LCD-1
62. 1,1,2,2-Tetrachloroethane	U	1.00		119	100	119	69 - 141		111	7	20		MB-1	LCS-1	LCD-1
63. Tetrachloroethene	U	1.00		111	100	111	81 - 145		103	7	20		MB-1	LCS-1	LCD-1
64. Tetrahydrofuran	U	5.00		87.0	100	87	33 - 148		83	5	20		MB-1	LCS-1	LCD-1
65. Toluene	U	1.00		107	100	107	77 - 135		99	8	20		MB-1	LCS-1	LCD-1
66. 1,2,3-Trichlorobenzene	U	1.00		119	100	119	74 - 147		112	6	20		MB-1	LCS-1	LCD-1
67. 1,2,4-Trichlorobenzene	U	1.00		122	100	122	73 - 152		113	8	20		MB-1	LCS-1	LCD-1
68. 1,1,1-Trichloroethane	U	1.00		102	100	102	69 - 143		94	8	20		MB-1	LCS-1	LCD-1
69. 1,1,2-Trichloroethane	U	1.00		101	100	101	84 - 122		91	10	20		MB-1	LCS-1	LCD-1
70. Trichloroethene	U	1.00		108	100	108	72 - 143		100	8	20		MB-1	LCS-1	LCD-1
71. Trichlorofluoromethane	U	1.00		150	100	150	41 - 181		145	3	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trichloropropane	U	1.00		103	100	102	82 - 127		98	4	20		MB-1	LCS-1	LCD-1
73. 1,2,3-Trimethylbenzene	U	1.00		115	100	115	80 - 133		106	6	20		MB-1	LCS-1	LCD-1
74. 1,2,4-Trimethylbenzene	U	1.00		122	100	122	81 - 140		111	9	20		MB-1	LCS-1	LCD-1
75. 1,3,5-Trimethylbenzene	U	1.00		118	100	118	82 - 140		110	7	20		MB-1	LCS-1	LCD-1
76. Vinyl Chloride	U	1.00		97.2	100	97	40 - 174		91	6	20		MB-1	LCS-1	LCD-1
77. m&p-Xylene	U	1.00		231	200	116	86 - 133		108	7	20		MB-1	LCS-1	LCD-1
78. o-Xylene	U	1.00		121	100	121	85 - 131		112	8	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VH13H30A
Page: 3 of 3
Date: 09/03/13

Preparation Batch: VH13H30A

Preparation Date: 08/30/13

Parameter	Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL		Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L			µg/L	µg/L	%	%		%	%	%				
System Monitoring Compounds (Surrogates):																
	Result	Spike	Rec.	Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L	%		µg/L	µg/L	%	%		%	%	%				
1. Dibromofluoromethane(S)	108	100	108		101	100	100	87 - 130		102	2	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	110	100	110		110	100	110	58 - 133		109	1	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	109	100	109		109	100	109	77 - 114		108	1	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	111	100	111		107	100	107	65 - 115		106	1	20		MB-1	LCS-1	LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 VH13H30A 08/30/13 15:07
LCS-1 VH13H30A 08/30/13 13:00
LCD-1 VH13H30A 08/30/13 14:13

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Douglas Holmes
Vice President
Tuesday, September 03, 2013
3:41:08 PM

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: VJ13H28A
Page: 1 of 3
Date: 08/29/13

Preparation Batch: VJ13H28A

Preparation Date: 08/28/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	500		4,087	5,000	82	40 - 207		81	1	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	50.0		5,192	5,000	104	45 - 180		102	2	20		MB-1	LCS-1	LCD-1
3. Benzene	U	25.0		4,853	5,000	97	63 - 141		96	1	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	100		5,041	5,000	101	70 - 144		104	3	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	50.0		4,843	5,000	97	42 - 161		96	1	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	25.0		5,131	5,000	103	60 - 150		104	1	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	100		4,764	5,000	95	50 - 117		95	0	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	100		5,092	5,000	102	58 - 217		104	2	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	1,000		50,412	50,000	101	42 - 158		89	13	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	500		5,149	5,000	103	42 - 193		102	1	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	25.0		5,723	5,000	114	65 - 151		116	2	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	50.0		5,384	5,000	108	68 - 147		109	1	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	25.0		5,385	5,000	108	68 - 140		110	2	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	50.0		4,706	5,000	94	36 - 143		91	3	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	50.0		6,110	5,000	122	50 - 159		121	1	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	50.0		4,792	5,000	96	72 - 135		94	2	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	250		5,213	5,000	104	16 - 207		103	1	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	25.0		4,965	5,000	99	47 - 159		98	1	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	100		5,139	5,000	103	14 - 185		96	7	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	50.0		4,979	5,000	100	73 - 141		104	4	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	250		5,192	5,000	104	52 - 195		101	3	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	100		5,047	5,000	101	59 - 130		101	0	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	25.0		4,919	5,000	98	34 - 164		103	5	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	250		4,283	5,000	86	66 - 134		85	1	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	25.0		4,885	5,000	98	76 - 128		99	1	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	25.0		4,825	5,000	97	72 - 136		98	1	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	50.0		4,595	5,000	92	74 - 127		95	3	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	25.0		6,428	5,000	129	56 - 153		134	4	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	100		5,336	5,000	107	10 - 207		104	3	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	50.0		5,040	5,000	101	42 - 157		99	2	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	50.0		5,492	5,000	110	56 - 146		109	1	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	50.0		5,371	5,000	107	34 - 165		103	4	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	25.0		5,147	5,000	103	43 - 170		101	2	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	25.0		5,227	5,000	105	49 - 162		103	2	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	50.0		4,964	5,000	99	62 - 151		99	0	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	25.0		5,123	5,000	102	77 - 132		101	1	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	25.0		7,232	5,000	145	52 - 169		138	5	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	50.0		5,177	5,000	104	52 - 153		101	3	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	25.0		5,469	5,000	109	45 - 156		108	1	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	25.0		5,467	5,000	109	40 - 157		112	3	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	50.0		4,823	5,000	96	30 - 167		97	1	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	25.0		5,397	5,000	108	38 - 167		107	1	20		MB-1	LCS-1	LCD-1
43. ETBE	U	50.0		5,504	5,000	110	40 - 159		107	3	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	50.0		5,178	5,000	104	76 - 137		102	2	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	50.0		4,771	5,000	95	71 - 133		95	0	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	250		5,058	5,000	101	79 - 142		102	1	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	50.0		5,308	5,000	106	42 - 151		107	1	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	250		5,747	5,000	115	29 - 211		114	1	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	250		5,050	5,000	101	68 - 153		100	1	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: VJ13H28A
Page: 2 of 3
Date: 08/29/13

Preparation Batch: VJ13H28A

Preparation Date: 08/28/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)				LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%	%	%	%				
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%	%	%	%				
50. 4-Isopropyltoluene	U	100		5,370	5,000	107	75 - 139	109	2	20		MB-1	LCS-1	LCD-1
51. Methyl Iodide	U	100		4,833	5,000	97	17 - 150	102	5	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	50.0		4,949	5,000	99	38 - 180	96	3	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	U	250		4,277	5,000	86	42 - 202	88	2	20		MB-1	LCS-1	LCD-1
54. 4-Methyl-2-pentanone	U	250		5,176	5,000	104	55 - 161	105	1	20		MB-1	LCS-1	LCD-1
55. MTBE	U	250		5,180	5,000	104	58 - 147	104	0	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	250		5,259	5,000	105	45 - 180	109	4	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	50.0		5,226	5,000	105	71 - 146	107	2	20		MB-1	LCS-1	LCD-1
58. Styrene	U	25.0		5,337	5,000	107	72 - 138	104	3	20		MB-1	LCS-1	LCD-1
59. TAME	U	50.0		5,308	5,000	106	51 - 135	106	0	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	50.0		4,945	5,000	99	61 - 131	98	1	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	50.0		4,350	5,000	87	72 - 145	101	15	20		MB-1	LCS-1	LCD-1
62. Tetrachloroethene	U	50.0		4,481	5,000	90	50 - 151	86	5	20		MB-1	LCS-1	LCD-1
63. Tetrahydrofuran	U	250		4,697	5,000	94	28 - 169	95	1	20		MB-1	LCS-1	LCD-1
64. Toluene	U	25.0		4,879	5,000	98	65 - 144	97	1	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	100		5,073	5,000	101	50 - 161	103	2	20		MB-1	LCS-1	LCD-1
66. 1,2,4-Trichlorobenzene	U	250		5,107	5,000	102	54 - 152	104	2	20		MB-1	LCS-1	LCD-1
67. 1,1,1-Trichloroethane	U	50.0		5,189	5,000	104	46 - 156	101	3	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	50.0		4,789	5,000	96	80 - 129	94	2	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	50.0		4,717	5,000	94	65 - 144	93	1	20		MB-1	LCS-1	LCD-1
70. Trichlorofluoromethane	U	50.0		5,718	5,000	114	31 - 226	125	9	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trichloropropane	U	25.0		5,349	5,000	107	74 - 139	102	5	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	100		5,296	5,000	106	77 - 133	108	2	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	100		5,320	5,000	106	71 - 139	109	3	20		MB-1	LCS-1	LCD-1
74. 1,3,5-Trimethylbenzene	U	100		5,352	5,000	107	71 - 138	109	2	20		MB-1	LCS-1	LCD-1
75. Vinyl Chloride	U	25.0		5,109	5,000	102	25 - 189	100	2	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	100		10,807	10,000	108	69 - 134	105	3	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	50.0		5,424	5,000	108	69 - 134	105	3	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: VJ13H28A
Page: 3 of 3
Date: 08/29/13

Preparation Batch: VJ13H28A

Preparation Date: 08/28/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
System Monitoring Compounds (Surrogates):															
1. Dibromofluoromethane(S)	2,571	2,500	103	2,469	2,500	99	53 - 139		98	1	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	3,115	2,500	125	3,065	2,500	123	64 - 135		121	2	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	2,555	2,500	102	2,534	2,500	101	70 - 130		103	2	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	2,596	2,500	104	2,665	2,500	107	71 - 129		106	1	20		MB-1	LCS-1	LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 VJ13H28A 08/28/13 11:57
LCS-1 VJ13H28A 08/28/13 09:47
LCD-1 VJ13H28A 08/28/13 10:13

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Carine Dempsey

Carine Dempsey
Chemist, Volatile Organics
Thursday, August 29, 2013
2:17:24 PM

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: VJ13H27A
Page: 1 of 3
Date: 08/28/13

Preparation Batch: VJ13H27A

Preparation Date: 08/27/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
Parameter	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	500		4,214	5,000	84	40 - 207		71	17	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	50.0		5,142	5,000	103	45 - 180		97	6	20		MB-1	LCS-1	LCD-1
3. Benzene	U	25.0		4,647	5,000	93	63 - 141		95	2	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	100		5,065	5,000	101	70 - 144		106	-5	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	50.0		4,710	5,000	94	42 - 161		95	1	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	25.0		4,958	5,000	99	60 - 150		103	4	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	100		4,726	5,000	95	50 - 117		95	0	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	100		4,521	5,000	90	58 - 217		97	7	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	1,000		56,488	50,000	113	42 - 156		92	20	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	500		5,085	5,000	102	42 - 193		95	7	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	25.0		5,516	5,000	110	65 - 151		99	11	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	50.0		5,229	5,000	105	68 - 147		99	6	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	25.0		5,238	5,000	105	68 - 140		103	2	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	50.0		4,388	5,000	88	36 - 143		91	3	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	50.0		5,609	5,000	112	50 - 159		118	5	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	50.0		4,691	5,000	94	72 - 135		94	0	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	250		4,790	5,000	96	16 - 207		96	0	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	25.0		4,712	5,000	94	47 - 159		96	2	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	100		4,614	5,000	92	14 - 185		94	2	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	50.0		4,986	5,000	100	73 - 141		104	4	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	250		4,745	5,000	95	52 - 195		98	3	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	100		5,095	5,000	102	59 - 130		101	1	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	25.0		5,235	5,000	105	34 - 164		103	2	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	250		4,361	5,000	87	66 - 134		89	2	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	25.0		5,011	5,000	100	76 - 128		100	0	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	25.0		4,839	5,000	97	72 - 136		97	0	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	50.0		4,627	5,000	93	74 - 127		94	1	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	25.0		6,605	5,000	132	56 - 153		136	3	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	100		4,932	5,000	99	10 - 207		97	2	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	50.0		4,753	5,000	95	42 - 157		96	1	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	50.0		5,283	5,000	106	56 - 146		108	2	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethane	U	50.0		4,977	5,000	100	34 - 165		102	2	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethane	U	25.0		4,895	5,000	98	43 - 170		100	2	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethane	U	25.0		4,853	5,000	97	49 - 162		100	3	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	50.0		4,847	5,000	97	62 - 151		97	0	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	25.0		5,163	5,000	103	77 - 132		103	0	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	25.0		6,613	5,000	132	52 - 169		135	2	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	50.0		4,772	5,000	95	52 - 153		99	4	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	25.0		5,367	5,000	107	45 - 156		108	1	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	25.0		5,581	5,000	112	40 - 157		112	0	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	50.0		4,831	5,000	97	30 - 167		96	1	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	25.0		5,223	5,000	104	38 - 167		105	1	20		MB-1	LCS-1	LCD-1
43. ETBE	U	50.0		5,291	5,000	106	40 - 159		108	2	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	50.0		4,911	5,000	98	76 - 137		99	1	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	50.0		4,793	5,000	96	71 - 133		96	0	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	250		4,969	5,000	99	79 - 142		76	26	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	50.0		5,056	5,000	101	42 - 151		98	3	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	250		5,637	5,000	113	29 - 211		112	1	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	250		4,798	5,000	96	68 - 153		95	1	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: VJ13H27A
Page: 2 of 3
Date: 08/28/13

Preparation Batch: VJ13H27A Preparation Date: 08/27/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)				LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%	%	%	%				
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%	%	%	%				
50. 4-isopropyltoluene	U	100		5,269	5,000	105	75 - 139	97	8	20		MB-1	LCS-1	LCD-1
51. Methyl iodide	U	100		4,691	5,000	94	17 - 150	97	3	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	50.0		4,658	5,000	93	38 - 180	94	1	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	U	250		4,692	5,000	94	42 - 202	77	20	20		MB-1	LCS-1	LCD-1
54. 4-Methyl-2-pentanone	U	250		5,241	5,000	105	55 - 161	106	1	20		MB-1	LCS-1	LCD-1
55. MTBE	U	250		5,164	5,000	103	58 - 147	104	1	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	250		5,558	5,000	111	45 - 180	101	9	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	50.0		5,134	5,000	103	71 - 146	104	1	20		MB-1	LCS-1	LCD-1
58. Styrene	U	25.0		5,172	5,000	103	72 - 138	104	1	20		MB-1	LCS-1	LCD-1
59. TAME	U	50.0		5,359	5,000	107	51 - 135	108	1	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	50.0		4,795	5,000	96	61 - 131	99	3	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	50.0		5,041	5,000	101	72 - 145	104	3	20		MB-1	LCS-1	LCD-1
62. Tetrachloroethene	U	50.0		4,285	5,000	86	50 - 151	87	1	20		MB-1	LCS-1	LCD-1
63. Tetrahydrofuran	U	250		4,796	5,000	96	28 - 169	91	5	20		MB-1	LCS-1	LCD-1
64. Toluene	U	25.0		4,691	5,000	94	85 - 144	96	2	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	100		5,192	5,000	104	50 - 161	87	18	20		MB-1	LCS-1	LCD-1
66. 1,2,4-Trichlorobenzene	U	250		5,269	5,000	105	54 - 152	88	18	20		MB-1	LCS-1	LCD-1
67. 1,1,1-Trichloroethane	U	50.0		4,761	5,000	95	46 - 156	99	4	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	50.0		4,792	5,000	96	80 - 129	98	2	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	50.0		4,578	5,000	92	65 - 144	93	1	20		MB-1	LCS-1	LCD-1
70. Trichlorofluoromethane	U	50.0		5,035	5,000	101	31 - 226	118	16	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trichloropropane	U	25.0		5,034	5,000	101	74 - 139	105	4	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	100		5,273	5,000	105	77 - 133	104	1	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	100		5,323	5,000	106	71 - 139	104	2	20		MB-1	LCS-1	LCD-1
74. 1,3,5-Trimethylbenzene	U	100		5,246	5,000	105	71 - 138	103	2	20		MB-1	LCS-1	LCD-1
75. Vinyl Chloride	U	25.0		4,756	5,000	95	25 - 189	95	0	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	100		10,188	10,000	102	69 - 134	103	1	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	50.0		5,131	5,000	103	69 - 134	103	0	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: VJ13H27A
Page: 3 of 3
Date: 08/28/13

Preparation Batch: VJ13H27A

Preparation Date: 08/27/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)			Run Code			
	Result	PQL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL		MB	LCS	LCD
	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q			
	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)			Run Code			
	Result	Spike	Rec.	Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL		MB	LCS	LCD
	µg/kg	µg/kg	%	µg/kg	µg/kg	%	%	Q	%	%	%	Q			
System Monitoring Compounds (Surrogates):															
1. Dibromofluoromethane(S)	2,481	2,500	99	2,428	2,500	97	53 - 139		98	1	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	3,149	2,500	126	2,894	2,500	116	64 - 135		118	2	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	2,594	2,500	104	2,497	2,500	100	70 - 130		101	1	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	2,649	2,500	106	2,634	2,500	105	71 - 129		103	2	20		MB-1	LCS-1	LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 VJ13H27A 08/27/13 17:10
LCS-1 VJ13H27A 08/27/13 15:01
LCD-1 VJ13H27A 08/27/13 15:27

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Carine Dempsey

Carine Dempsey
Chemist, Volatile Organics
Wednesday, August 28, 2013
2:01:58 PM

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VH13H30B
Page: 1 of 3
Date: 09/03/13

Preparation Batch: VH13H30B

Preparation Date: 08/30/13

09-03-13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	10.0		117	100	117	19 - 165		129	10	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	1.00		122	100	122	43 - 155		129	6	20		MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		108	100	108	69 - 137		99	9	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		107	100	107	65 - 140		102	5	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		95.7	100	96	33 - 141		90	6	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		128	100	128	84 - 144		120	6	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		129	100	129	66 - 136		133	3	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	2.00		122	100	122	56 - 172		95	25	20	*	MB-1	LCS-1	LCD-1
9. 1-Butanol	U	5.00		898	1,000	90	25 - 157		112	22	20	*	MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		86.4	100	86	28 - 176		96	11	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		135	100	135	63 - 149		126	7	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		119	100	119	61 - 143		110	8	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		122	100	122	70 - 139		114	7	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	0.500		115	100	115	27 - 166		99	15	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		115	100	115	70 - 140		102	12	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		98.9	100	99	88 - 126		93	6	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	2.00		166	100	166	39 - 172		155	7	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		112	100	112	66 - 138		103	8	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	1.06		115	100	115	45 - 163		103	11	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	0.864		117	100	117	75 - 137		110	6	20		MB-1	LCS-1	LCD-1
21. 4-Chlorotoluene	U	1.00		117	100	117	79 - 137		112	4	20		MB-1	LCS-1	LCD-1
22. Cyclohexane	U	0.973		125	100	125	42 - 156		114	9	20		MB-1	LCS-1	LCD-1
23. Dibromochloromethane	U	1.00		125	100	125	83 - 127		122	2	20		MB-1	LCS-1	LCD-1
24. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		140	100	140	66 - 134	*	157	11	20		MB-1	LCS-1	LCD-1
25. Dibromomethane	U	1.00		104	100	104	67 - 148		104	0	20		MB-1	LCS-1	LCD-1
26. 1,2-Dichlorobenzene	U	1.00		112	100	112	71 - 154		108	4	20		MB-1	LCS-1	LCD-1
27. 1,3-Dichlorobenzene	U	1.00		112	100	112	74 - 156		106	6	20		MB-1	LCS-1	LCD-1
28. 1,4-Dichlorobenzene	U	1.00		99.3	100	99	89 - 121		94	5	20		MB-1	LCS-1	LCD-1
29. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		142	100	142	47 - 164		140	3	20		MB-1	LCS-1	LCD-1
30. Dichlorodifluoromethane	U	1.33		118	100	118	44 - 188		106	11	20		MB-1	LCS-1	LCD-1
31. 1,1-Dichloroethane	U	1.00		100	100	100	59 - 145		93	7	20		MB-1	LCS-1	LCD-1
32. 1,2-Dichloroethane	U	0.820		104	100	104	68 - 143		99	5	20		MB-1	LCS-1	LCD-1
33. 1,1-Dichloroethene	U	1.00		119	100	119	56 - 163		103	14	20		MB-1	LCS-1	LCD-1
34. cis-1,2-Dichloroethene	U	1.00		109	100	109	54 - 161		101	8	20		MB-1	LCS-1	LCD-1
35. trans-1,2-Dichloroethene	U	1.00		108	100	108	56 - 163		98	10	20		MB-1	LCS-1	LCD-1
36. 1,2-Dichloropropane	U	1.00		104	100	104	66 - 135		98	6	20		MB-1	LCS-1	LCD-1
37. 1,3-Dichloropropane	U	1.00		111	100	111	75 - 136		109	2	20		MB-1	LCS-1	LCD-1
38. 2,2-Dichloropropane	U	1.00		90.1	100	90	53 - 176		78	14	20		MB-1	LCS-1	LCD-1
39. 1,1-Dichloropropene	U	1.00		105	100	105	82 - 152		95	10	20		MB-1	LCS-1	LCD-1
40. cis-1,3-Dichloropropene	U	1.00		118	100	118	81 - 144		111	6	20		MB-1	LCS-1	LCD-1
41. trans-1,3-Dichloropropene	U	1.00		122	100	122	66 - 150		116	5	20		MB-1	LCS-1	LCD-1
42. Diethyl Ether	U	1.00		120	100	120	37 - 153		112	7	20		MB-1	LCS-1	LCD-1
43. Diisopropyl Ether	U	1.00		90.6	100	91	42 - 156		84	8	20		MB-1	LCS-1	LCD-1
44. ETBE	U	1.00		83.5	100	83	49 - 150		81	2	20		MB-1	LCS-1	LCD-1
45. Ethylbenzene	U	1.00		112	100	112	88 - 131		105	6	20		MB-1	LCS-1	LCD-1
46. Ethylene Dibromide	U	0.863		103	100	103	86 - 131		104	1	20		MB-1	LCS-1	LCD-1
47. Hexachlorobutadiene	U	2.50		115	100	115	72 - 144		108	6	20		MB-1	LCS-1	LCD-1
48. Hexachloroethane	U	1.00		125	100	125	37 - 171		117	7	20		MB-1	LCS-1	LCD-1
49. 2-Hexanone	U	2.00		104	100	104	37 - 183		120	14	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VH13H30B
Page: 2 of 3
Date: 09/03/13

Preparation Batch: VH13H30B Preparation Date: 08/30/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)				LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%	%	%	%				
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%	%	%	%				
50. Isopropylbenzene	U	0.852		117	100	117	89 - 148	109	7	20		MB-1	LCS-1	LCD-1
51. 4-Isopropyltoluene	U	0.634		128	100	128	86 - 142	119	7	20		MB-1	LCS-1	LCD-1
52. Methyl Iodide	U	0.540		113	100	113	38 - 159	96	16	20		MB-1	LCS-1	LCD-1
53. Methylene Chloride	U	1.00		94.9	100	95	36 - 149	87	9	20		MB-1	LCS-1	LCD-1
54. 2-Methylnaphthalene	4.78	1.00	*	105	100	105	49 - 157	122	15	20		MB-1	LCS-1	LCD-1
55. 4-Methyl-2-pentanone	U	1.05		131	100	131	60 - 152	147	12	20		MB-1	LCS-1	LCD-1
56. MTBE	U	2.00		72.1	100	72	54 - 144	71	1	20		MB-1	LCS-1	LCD-1
57. Naphthalene	U	1.00		130	100	130	64 - 158	138	6	20		MB-1	LCS-1	LCD-1
58. n-Propylbenzene	U	1.00		118	100	118	64 - 146	110	7	20		MB-1	LCS-1	LCD-1
59. Styrene	U	1.00		117	100	117	79 - 129	112	4	20		MB-1	LCS-1	LCD-1
60. TAME	U	1.00		63.3	100	63	66 - 133	62	2	20		MB-1	LCS-1	LCD-1
61. 1,1,1,2-Tetrachloroethane	U	1.00		116	100	116	84 - 135	110	4	20		MB-1	LCS-1	LCD-1
62. 1,1,2,2-Tetrachloroethane	U	1.00		117	100	117	69 - 141	124	6	20		MB-1	LCS-1	LCD-1
63. Tetrachloroethene	U	1.00		110	100	110	81 - 145	103	7	20		MB-1	LCS-1	LCD-1
64. Tetrahydrofuran	U	5.00		85.9	100	86	33 - 148	96	11	20		MB-1	LCS-1	LCD-1
65. Toluene	U	1.00		107	100	107	77 - 135	99	8	20		MB-1	LCS-1	LCD-1
66. 1,2,3-Trichlorobenzene	U	1.00		117	100	117	74 - 147	116	1	20		MB-1	LCS-1	LCD-1
67. 1,2,4-Trichlorobenzene	U	1.00		118	100	118	73 - 152	115	3	20		MB-1	LCS-1	LCD-1
68. 1,1,1-Trichloroethane	U	1.00		101	100	101	69 - 143	91	10	20		MB-1	LCS-1	LCD-1
69. 1,1,2-Trichloroethane	U	1.00		100	100	100	84 - 122	99	1	20		MB-1	LCS-1	LCD-1
70. Trichloroethene	U	1.00		108	100	108	72 - 143	102	6	20		MB-1	LCS-1	LCD-1
71. Trichlorofluoromethane	U	1.00		152	100	152	41 - 181	128	17	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trichloropropane	U	1.00		99.7	100	100	82 - 127	106	6	20		MB-1	LCS-1	LCD-1
73. 1,2,3-Trimethylbenzene	U	1.00		114	100	114	80 - 133	107	6	20		MB-1	LCS-1	LCD-1
74. 1,2,4-Trimethylbenzene	U	1.00		120	100	120	81 - 140	113	6	20		MB-1	LCS-1	LCD-1
75. 1,3,5-Trimethylbenzene	U	1.00		118	100	118	82 - 140	110	7	20		MB-1	LCS-1	LCD-1
76. Vinyl Chloride	U	1.00		114	100	114	40 - 174	88	26	20	*	MB-1	LCS-1	LCD-1
77. m,p-Xylene	U	1.00		230	200	115	86 - 133	108	6	20		MB-1	LCS-1	LCD-1
78. o-Xylene	U	1.00		120	100	120	85 - 131	113	6	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VH13H30B
Page: 3 of 3
Date: 09/03/13

Preparation Batch: VH13H30B

Preparation Date: 08/30/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)				LCS Duplicate (LCD)			Run Code		
	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB LCS LCD
System Monitoring Compounds (Surrogates):													
1. Dibromofluoromethane(S)	98.6	100	99	99.4	100	99	67 - 130		98	1	20		MB-1 LCS-1 LCD-1
2. 1,2-Dichloroethane-d4(S)	108	100	108	106	100	106	58 - 133		106	0	20		MB-1 LCS-1 LCD-1
3. Toluene-d8(S)	109	100	109	109	100	109	77 - 114		110	1	20		MB-1 LCS-1 LCD-1
4. 4-Bromofluorobenzene(S)	109	100	109	107	100	107	65 - 115		106	1	20		MB-1 LCS-1 LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 VH13H30B 08/31/13 04:08
LCS-1 VH13H30B 08/31/13 02:47
LCD-1 VH13H30B 08/31/13 03:14

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Douglas Holmes
Vice President
Tuesday, September 03, 2013
3:59:53 PM

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soll/Sollid

Batch ID: V913H29C
Page: 1 of 3
Date: 08/30/13

Preparation Batch: V913H29C

Preparation Date: 08/29/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL	UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%		%	%	%				
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL	UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
µg/kg	µg/kg			µg/kg	µg/kg	%	%		%	%	%				
1. Acetone	U	315		5,141	5,000	103	40	207	94	9	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	50.0		5,020	5,000	100	45	180	95	5	20		MB-1	LCS-1	LCD-1
3. Benzene	U	25.0		4,551	5,000	91	63	141	90	1	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	25.0		4,553	5,000	91	70	144	89	2	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	100		4,797	5,000	96	42	161	91	5	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	50.0		4,657	5,000	93	60	150	93	0	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	100		4,621	5,000	92	50	117	88	4	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	100		4,256	5,000	85	58	217	86	1	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	2,500		50,865	50,000	102	42	156	92	10	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	250		5,033	5,000	101	42	193	93	8	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	25.0		5,258	5,000	105	65	151	104	1	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	25.0		5,061	5,000	101	68	147	99	2	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	25.0		4,992	5,000	100	68	140	96	4	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	100		4,738	5,000	95	36	143	93	2	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	50.0		4,858	5,000	97	50	159	96	1	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	50.0		4,755	5,000	95	72	135	95	0	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	250		5,316	5,000	106	16	207	100	6	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	50.0		4,361	5,000	87	47	159	85	2	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	50.0		4,840	5,000	97	14	185	93	4	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	25.0		4,835	5,000	97	73	141	93	4	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	50.0		5,117	5,000	102	52	195	99	3	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	50.0		5,375	5,000	107	59	130	106	1	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	25.0		5,240	5,000	105	34	164	96	9	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	50.0		4,467	5,000	89	66	134	87	2	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	25.0		4,772	5,000	95	76	128	94	1	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	25.0		4,753	5,000	95	72	136	93	2	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	50.0		4,697	5,000	94	74	127	92	2	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	25.0		4,864	5,000	97	56	153	91	6	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	125		4,824	5,000	96	10	207	94	2	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	50.0		4,494	5,000	90	42	157	87	3	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	50.0		4,157	5,000	83	56	146	82	1	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	25.0		4,591	5,000	92	34	165	88	4	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	25.0		4,520	5,000	90	43	170	88	2	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	25.0		4,510	5,000	90	49	162	87	3	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	50.0		4,840	5,000	97	62	151	94	3	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	25.0		5,063	5,000	101	77	132	99	2	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	50.0		4,001	5,000	80	52	169	79	1	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	50.0		4,808	5,000	96	52	153	94	2	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	50.0		4,686	5,000	94	45	156	93	1	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	50.0		4,897	5,000	98	40	157	95	3	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	50.0		4,905	5,000	98	30	167	95	3	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	25.0		5,201	5,000	104	38	167	102	2	20		MB-1	LCS-1	LCD-1
43. ETBE	U	25.0		5,049	5,000	101	40	159	98	3	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	25.0		4,700	5,000	94	76	137	92	2	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	50.0		4,901	5,000	98	71	133	96	2	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	100		5,328	5,000	107	79	142	105	2	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	100		5,755	5,000	115	42	151	114	1	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	250		5,120	5,000	102	29	211	95	7	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	25.0		4,877	5,000	98	68	153	97	1	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: V913H29C
Page: 2 of 3
Date: 08/30/13

Preparation Batch: V913H29C Preparation Date: 08/29/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)				LCS Duplicate (LCD)			Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%	%	%	%			
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%	%	%	%			
50. 4-Isopropyltoluene	U	25.0		5,225	5,000	104	75 - 139	102	2	20	MB-1	LCS-1	LCD-1
51. Methyl Iodide	U	100		4,896	5,000	98	17 - 150	96	2	20	MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	25.0		4,314	5,000	86	38 - 180	85	1	20	MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	30.8	25.0	*	4,571	5,000	91	42 - 202	85	7	20	MB-1	LCS-1	LCD-1
54. 4-Methyl-2-pentanone	U	500		5,152	5,000	103	55 - 161	98	5	20	MB-1	LCS-1	LCD-1
55. MTBE	U	50.0		4,888	5,000	98	58 - 147	94	4	20	MB-1	LCS-1	LCD-1
56. Naphthalene	U	25.0		4,915	5,000	98	45 - 180	91	7	20	MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	25.0		4,935	5,000	99	71 - 146	97	2	20	MB-1	LCS-1	LCD-1
58. Styrene	U	25.0		5,049	5,000	101	72 - 138	100	1	20	MB-1	LCS-1	LCD-1
59. TAME	U	100		4,760	5,000	95	51 - 135	92	3	20	MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	50.0		5,335	5,000	107	61 - 131	105	2	20	MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	50.0		5,174	5,000	103	72 - 145	98	5	20	MB-1	LCS-1	LCD-1
62. Tetrachloroethene	U	25.0		4,857	5,000	97	50 - 151	94	3	20	MB-1	LCS-1	LCD-1
63. Tetrahydrofuran	U	250		4,637	5,000	93	28 - 169	82	13	20	MB-1	LCS-1	LCD-1
64. Toluene	U	25.0		4,356	5,000	87	65 - 144	86	1	20	MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	50.0		4,820	5,000	96	50 - 161	95	1	20	MB-1	LCS-1	LCD-1
66. 1,2,4-Trichlorobenzene	U	50.0		4,609	5,000	92	54 - 152	92	0	20	MB-1	LCS-1	LCD-1
67. 1,1,1-Trichloroethane	U	50.0		4,464	5,000	89	46 - 156	87	2	20	MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	50.0		5,064	5,000	101	80 - 129	98	3	20	MB-1	LCS-1	LCD-1
69. Trichloroethene	U	50.0		4,653	5,000	93	65 - 144	91	2	20	MB-1	LCS-1	LCD-1
70. Trichlorofluoromethane	U	50.0		5,403	5,000	108	31 - 226	102	6	20	MB-1	LCS-1	LCD-1
71. 1,2,3-Trichloropropane	U	100		4,915	5,000	98	74 - 139	91	7	20	MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	25.0		4,889	5,000	98	77 - 133	94	4	20	MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	25.0		5,028	5,000	101	71 - 139	98	3	20	MB-1	LCS-1	LCD-1
74. 1,3,5-Trimethylbenzene	U	25.0		5,127	5,000	103	71 - 138	99	4	20	MB-1	LCS-1	LCD-1
75. Vinyl Chloride	U	25.0		4,697	5,000	94	25 - 169	92	2	20	MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	50.0		9,343	10,000	93	69 - 134	92	1	20	MB-1	LCS-1	LCD-1
77. o-Xylene	U	25.0		4,662	5,000	93	69 - 134	93	0	20	MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Soil/Solid

Batch ID: V913H29C
Page: 3 of 3
Date: 08/30/13

Preparation Batch: V913H29C

Preparation Date: 08/29/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code			
	Result	PQL	Q	Result	Spike	Rec.	LCL	UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/kg	µg/kg		µg/kg	µg/kg	%	%	%		%	%	%				
System Monitoring Compounds (Surrogates):	Result	Spike	Rec.	Result	Spike	Rec.	LCL	UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/kg	µg/kg	%	µg/kg	µg/kg	%	%	%		%	%	%				
1. Dibromofluoromethane(S)	2,470	2,500	99	2,326	2,500	93	53	139		91	2	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	2,318	2,500	93	2,183	2,500	87	64	135		86	1	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	2,290	2,500	92	2,309	2,500	92	70	130		93	1	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	2,378	2,500	95	2,258	2,500	90	71	129		93	3	20		MB-1	LCS-1	LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 V913H29C 08/30/13 01:14
LCS-1 V913H29C 08/29/13 22:56
LCD-1 V913H29C 08/29/13 23:24

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Carine Dempsey

Carine Dempsey
Chemist, Volatile Organics
Friday, August 30, 2013
4:08:36 PM

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H29A
Page: 1 of 3
Date: 08/29/13

Preparation Batch: VI13H29A

Preparation Date: 08/29/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)				LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%	%	%	%				
Parameter	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Rec.	RPD	UCL	Q	MB	LCS	LCD
µg/L	µg/L		µg/L	µg/L	%	%	%	%	%	%				
1. Acetone	U	10.0		71.7	100	72	19 - 165	78	8	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	2.00		88.4	100	88	43 - 155	99	12	20		MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		91.1	100	91	69 - 137	97	6	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		87.9	100	88	65 - 140	93	8	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		78.1	100	78	33 - 141	81	4	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		95.5	100	96	84 - 144	104	8	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		73.1	100	73	66 - 136	82	12	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	5.00		185	100	185	58 - 172	155	18	20		MB-1	LCS-1	LCD-1
9. n-Butanol	U	10.0		500	1,000	50	25 - 157	58	15	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		77.6	100	78	28 - 176	89	13	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		97.5	100	97	63 - 149	105	8	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		95.1	100	95	61 - 143	102	7	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		95.6	100	96	70 - 139	104	8	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	1.00		84.8	100	85	27 - 166	91	7	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		98.8	100	99	70 - 140	108	9	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		95.0	100	95	88 - 126	101	6	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	5.00		76.1	100	76	33 - 172	81	6	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		85.7	100	86	66 - 138	92	7	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	2.00		88.8	100	89	45 - 153	96	8	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	1.00		92.4	100	92	75 - 137	98	6	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	1.00		81.9	100	82	42 - 156	89	8	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	1.00		109	100	109	83 - 127	115	5	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		92.6	100	93	66 - 134	107	14	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	1.00		102	100	102	67 - 148	110	8	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	1.00		102	100	102	71 - 154	109	7	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	1.00		97.8	100	98	74 - 156	103	5	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	1.00		96.1	100	96	89 - 121	101	5	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		100	100	100	47 - 164	109	9	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	5.00		91.2	100	91	44 - 188	96	5	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	1.00		83.9	100	84	59 - 145	90	7	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	1.00		88.7	100	89	68 - 143	95	7	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	1.00		77.7	100	78	56 - 163	84	7	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	1.00		84.6	100	85	54 - 161	90	6	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	1.00		81.8	100	82	56 - 153	88	7	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	1.00		90.3	100	90	66 - 135	99	10	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	1.00		96.9	100	97	75 - 136	104	7	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	1.00		100	100	100	53 - 176	107	7	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	1.00		87.2	100	87	62 - 152	94	8	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	1.00		101	100	101	81 - 144	108	7	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	1.00		101	100	101	66 - 150	109	8	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	2.00		83.8	100	84	37 - 153	90	7	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	1.00		86.2	100	86	42 - 156	93	8	20		MB-1	LCS-1	LCD-1
43. ETBE	U	1.00		87.5	100	88	49 - 150	94	7	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	1.00		95.0	100	95	88 - 131	103	8	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	1.00		98.1	100	98	86 - 131	105	7	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	5.00		117	100	117	72 - 144	125	7	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	1.00		99.7	100	100	37 - 171	107	7	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	5.00		83.5	100	83	37 - 183	99	18	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	1.00		96.6	100	97	89 - 148	104	7	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H29A
Page: 2 of 3
Date: 08/29/13

Preparation Batch: VI13H29A

Preparation Date: 08/29/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
50. 4-Isopropyltoluene	U	1.00		101	100	101	86 - 142		109	8	20		MB-1	LCS-1	LCD-1
51. Methyl iodide	U	1.00		90.4	100	90	38 - 159		96	8	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	5.00		78.3	100	78	38 - 149		84	7	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	U	5.00		75.1	100	75	49 - 157		102	31	20		MB-1	LCS-1	LCD-1
54. 4-Methyl-2-pentanone	U	5.00		87.8	100	88	60 - 152		102	15	20		MB-1	LCS-1	LCD-1
55. MTBE	U	2.00		88.6	100	89	54 - 144		96	8	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	5.00		100	100	100	64 - 158		113	12	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	1.00		93.7	100	94	64 - 146		101	7	20		MB-1	LCS-1	LCD-1
58. Styrene	U	1.00		87.8	100	88	79 - 129		97	10	20		MB-1	LCS-1	LCD-1
59. TAME	U	1.00		93.5	100	93	66 - 133		102	9	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	1.00		101	100	101	84 - 135		107	6	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	1.00		93.8	100	94	69 - 141		103	9	20		MB-1	LCS-1	LCD-1
62. Tetrachloroethene	U	1.00		99.4	100	99	81 - 145		108	9	20		MB-1	LCS-1	LCD-1
63. Tetrahydrofuran	U	5.00		74.0	100	74	33 - 148		85	14	20		MB-1	LCS-1	LCD-1
64. Toluene	U	1.00		91.3	100	91	77 - 135		99	8	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	5.00		104	100	104	74 - 147		119	13	20		MB-1	LCS-1	LCD-1
66. 1,2,4-Trichlorobenzene	U	5.00		110	100	110	73 - 152		119	8	20		MB-1	LCS-1	LCD-1
67. 1,1,1-Trichloroethane	U	1.00		86.3	100	86	69 - 143		93	8	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	1.00		97.4	100	97	84 - 122		106	9	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	1.00		98.2	100	98	72 - 143		105	7	20		MB-1	LCS-1	LCD-1
70. Trichlorofluoromethane	U	1.00		79.5	100	79	41 - 181		85	7	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trichloropropane	U	1.00		88.4	100	88	82 - 127		100	13	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	1.00		95.6	100	96	80 - 133		102	6	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	1.00		98.6	100	99	81 - 140		106	7	20		MB-1	LCS-1	LCD-1
74. 1,3,5-Trimethylbenzene	U	1.00		98.2	100	98	82 - 140		106	8	20		MB-1	LCS-1	LCD-1
75. Vinyl Chloride	U	1.00		81.2	100	81	40 - 174		87	7	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	1.00		190	200	95	86 - 133		103	8	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	1.00		87.9	100	88	85 - 131		94	7	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H29A
Page: 3 of 3
Date: 08/29/13

Preparation Batch: VI13H29A

Preparation Date: 08/29/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%		%	%	%		%		
System Monitoring Compounds (Surrogates):															
	Result	Spike	Rec.	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L	%	µg/L	µg/L	%	%		%	%	%				
1. Dibromofluoromethane(S)	44.9	50.0	90	45.7	50.0	91	67 - 130		92	1	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	45.1	50.0	90	43.9	50.0	88	58 - 133		89	1	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	48.3	50.0	97	48.0	50.0	96	77 - 114		96	0	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	47.0	50.0	94	46.7	50.0	93	65 - 115		95	2	20		MB-1	LCS-1	LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 VI13H29A 08/29/13 11:42
LCS-1 VI13H29A 08/29/13 09:56
LCD-1 VI13H29A 08/29/13 10:23

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Jeffrey LeClair

Jeffrey LeClair
Chemist, Volatile Organics
Thursday, August 29, 2013
1:24:24 PM

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H27B
Page: 1 of 3
Date: 08/28/13

Preparation Batch: VI13H27B

Preparation Date: 08/27/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	10.0		92.6	100	93	19 - 165		94	1	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	2.00		124	100	124	43 - 155		119	4	20		MB-1	LCS-1	LCD-1
3. Benzene	U	1.00		118	100	118	69 - 137		111	6	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	1.00		91.2	100	91	65 - 140		87	4	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	1.00		118	100	118	33 - 141		109	8	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	1.00		124	100	124	84 - 144		118	5	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	1.00		101	100	101	66 - 136		98	3	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	5.00		99.6	100	100	56 - 172		101	1	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	10.0		609	1,000	61	25 - 157		87	35	20	*	MB-1	LCS-1	LCD-1
10. 2-Butanone	U	5.00		108	100	108	28 - 176		109	1	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	1.00		102	100	102	63 - 149		98	4	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	1.00		98.2	100	98	61 - 143		95	3	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	1.00		99.1	100	99	70 - 139		96	3	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	1.00		126	100	126	27 - 166		114	10	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	1.00		132	100	132	70 - 140		125	5	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	1.00		105	100	105	88 - 126		100	5	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	5.00		108	100	108	33 - 172		98	10	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	1.00		124	100	124	66 - 138		115	8	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	2.00		94.9	100	95	45 - 153		93	2	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	1.00		96.2	100	96	75 - 137		92	4	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	1.00		126	100	126	42 - 156		117	7	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	1.00		117	100	117	83 - 127		113	3	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	1.00		97.3	100	97	65 - 134		102	5	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	1.00		125	100	125	67 - 148		122	2	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	1.00		104	100	104	71 - 154		100	4	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	1.00		98.6	100	99	74 - 156		95	4	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	1.00		96.2	100	96	89 - 121		93	3	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	1.00		101	100	101	47 - 164		100	1	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	5.00		137	100	137	44 - 188		126	8	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	1.00		123	100	123	59 - 145		114	8	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	1.00		117	100	117	88 - 143		110	6	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	1.00		119	100	119	56 - 163		109	9	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	1.00		124	100	124	54 - 161		113	9	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	1.00		122	100	122	56 - 153		112	9	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	1.00		121	100	121	66 - 135		116	4	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	1.00		109	100	109	75 - 136		104	5	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	1.00		130	100	130	53 - 176		121	7	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	1.00		128	100	128	62 - 152		117	9	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	1.00		128	100	128	81 - 144		123	4	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	1.00		129	100	129	66 - 150		124	4	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	2.00		123	100	123	37 - 153		113	8	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	1.00		129	100	129	42 - 156		119	8	20		MB-1	LCS-1	LCD-1
43. ETBE	U	1.00		127	100	127	49 - 150		117	8	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	1.00		108	100	108	88 - 131		103	5	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	1.00		109	100	109	86 - 131		104	5	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	5.00		104	100	104	72 - 144		104	0	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	1.00		103	100	103	37 - 171		100	3	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	5.00		99.1	100	99	37 - 183		105	6	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	1.00		110	100	110	89 - 148		103	7	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H27B
Page: 2 of 3
Date: 08/28/13

Preparation Batch: VI13H27B

Preparation Date: 08/27/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%		%	%	%		%		
Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%		%	%	%		%	%	
50. 4-Isopropyltoluene	U	1.00		104	100	104	86 - 142		101	3	20		MB-1	LCS-1	LCD-1
51. Methyl iodide	U	1.00		110	100	110	38 - 169		94	16	20		MB-1	LCS-1	LCD-1
52. Methylene Chloride	U	5.00		118	100	118	38 - 149		108	9	20		MB-1	LCS-1	LCD-1
53. 2-Methylnaphthalene	U	5.00		79.3	100	79	49 - 157		99	22	20		MB-1	LCS-1	LCD-1
54. 4-Methyl-2-pentanone	U	5.00		116	100	116	60 - 152		122	5	20		MB-1	LCS-1	LCD-1
55. MTBE	U	2.00		127	100	127	54 - 144		119	7	20		MB-1	LCS-1	LCD-1
56. Naphthalene	U	5.00		100	100	100	64 - 158		105	5	20		MB-1	LCS-1	LCD-1
57. n-Propylbenzene	U	1.00		97.8	100	98	64 - 146		94	4	20		MB-1	LCS-1	LCD-1
58. Styrene	U	1.00		98.6	100	99	79 - 129		94	5	20		MB-1	LCS-1	LCD-1
59. TAME	U	1.00		120	100	120	66 - 133		115	4	20		MB-1	LCS-1	LCD-1
60. 1,1,1,2-Tetrachloroethane	U	1.00		111	100	111	84 - 135		106	5	20		MB-1	LCS-1	LCD-1
61. 1,1,2,2-Tetrachloroethane	U	1.00		95.8	100	96	69 - 141		95	1	20		MB-1	LCS-1	LCD-1
62. Tetrachloroethene	U	1.00		105	100	105	81 - 145		102	3	20		MB-1	LCS-1	LCD-1
63. Tetrahydrofuran	U	5.00		107	100	107	33 - 148		110	3	20		MB-1	LCS-1	LCD-1
64. Toluene	U	1.00		118	100	118	77 - 135		113	4	20		MB-1	LCS-1	LCD-1
65. 1,2,3-Trichlorobenzene	U	5.00		104	100	104	74 - 147		107	3	20		MB-1	LCS-1	LCD-1
66. 1,2,4-Trichlorobenzene	U	5.00		105	100	105	73 - 152		104	1	20		MB-1	LCS-1	LCD-1
67. 1,1,1-Trichloroethane	U	1.00		125	100	125	89 - 143		115	8	20		MB-1	LCS-1	LCD-1
68. 1,1,2-Trichloroethane	U	1.00		110	100	110	84 - 122		104	6	20		MB-1	LCS-1	LCD-1
69. Trichloroethene	U	1.00		124	100	124	72 - 143		120	3	20		MB-1	LCS-1	LCD-1
70. Trichlorofluoromethane	U	1.00		119	100	119	41 - 181		109	9	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trichloropropane	U	1.00		92.7	100	93	82 - 127		94	1	20		MB-1	LCS-1	LCD-1
72. 1,2,3-Trimethylbenzene	U	1.00		99.0	100	99	80 - 133		96	3	20		MB-1	LCS-1	LCD-1
73. 1,2,4-Trimethylbenzene	U	1.00		102	100	102	81 - 140		98	4	20		MB-1	LCS-1	LCD-1
74. 1,3,5-Trimethylbenzene	U	1.00		102	100	102	82 - 140		98	4	20		MB-1	LCS-1	LCD-1
75. Vinyl Chloride	U	1.00		114	100	114	40 - 174		106	7	20		MB-1	LCS-1	LCD-1
76. m&p-Xylene	U	1.00		218	200	109	88 - 133		102	7	20		MB-1	LCS-1	LCD-1
77. o-Xylene	U	1.00		111	100	111	85 - 131		105	6	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Volatile Organics by GC/MS
Aqueous

Batch ID: VI13H27B
Page: 3 of 3
Date: 08/28/13

Preparation Batch: VI13H27B Preparation Date: 08/27/13

Parameter	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Result	PQL	Q	Result	Spike	Rec.	LCL - UCL	Q	Rec.	RPD	UCL	Q	MB	LCS	LCD
	µg/L	µg/L		µg/L	µg/L	%	%		%	%	%				
System Monitoring Compounds (Surrogates):															
1. Dibromofluoromethane(S)	52.3	50.0	105	52.4	50.0	105	67 - 130		100	5	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	45.7	50.0	91	45.2	50.0	90	58 - 133		88	2	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	50.3	50.0	101	50.3	50.0	101	77 - 114		101	0	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	52.2	50.0	104	51.3	50.0	103	65 - 115		101	2	20		MB-1	LCS-1	LCD-1

Definitions/Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1 VI13H27B 08/28/13 01:21
LCS-1 VI13H27B 08/27/13 23:08
LCD-1 VI13H27B 08/27/13 23:35

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Jeffrey LeClair

Jeffrey LeClair
Chemist, Volatile Organics
Wednesday, August 28, 2013
4:00:46 PM