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HALEY & ALDRICH

9 June 2005
File No. 28882-605

Ms. Ana Townsend
California Regional Water Quality Control Board - Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

Subject: Preliminary Data Package for the Installation of Gage Aquifer and C-Sand Monitoring Wells, Former C-6 Facility, Los Angeles, California

Dear Ms. Townsend:

Enclosed please find the preliminary data package from the Gage Aquifer investigation at Boeing Realty Corporation's (BRC) former C-6 Facility in Los Angeles, California (Site). This preliminary data package includes a summary of the groundwater monitoring well installation activities, well construction details, groundwater levels, survey data, and groundwater sampling analytical data.

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BACKGROUND

The California Regional Water Quality Control Board – Los Angeles Region (LARWQCB) issued a California Water Code Section 13267 Order to BRC to install two groundwater monitoring wells in the Gage Aquifer in a letter dated 8 March 2005. The well installation and preliminary results were requested to be submitted to the LARWQCB on 31 May 2005. Due to weather delays and drilling equipment availability, the well installation was delayed and BRC submitted a request for extension on 28 March 2005. The LARWQCB approved the request for extension in a letter dated 12 April 2005 and the preliminary data package due date was revised to 17 June 2005.

Well installation procedures were described in A *Work Plan Groundwater Monitoring Well Installation* (Work Plan) prepared by Rubicon Engineering on 9 March 2005. The Work Plan was approved by the LARWQCB in a letter dated 22 March 2005.

WELL INSTALLATION AND RESULTS

The two Gage (MWG001 and MWG002) and one C-Sand (MWC009) groundwater monitoring wells were installed on 18 April through 28 April 2005 per the approved Work Plan. The two Gage wells were installed using sonic drilling methods and the C-Sand well was installed used hollow-stem auger drilling methods. The wells were constructed with Schedule-40 PVC casing with 0.02-inch slotted screen. The well construction details are summarized in the following table and copies of the boring logs are in Appendix A.

Well Construction Details	MWG001	MWG002	MWC009
Well diameter (inches)	2	2	4
Total depth (feet bgs)	190	195	125
Screen interval (feet)	157-187	163-193	101-121
Filter pack interval (#2/12 Monterey Sand) (feet)	NA	NA	98-121
Filter pack interval (#2/16 Monterey Sand) (feet)	152-187	158-193	NA
Bentonite pellet seal interval (feet)	129.5-152	128.5-158	91.5-98
Bentonite chip seal interval (feet)	2-129.5	2-128.5	2-91.5

bgs = below ground surface
NA = not applicable

For geologic description, the borings were continuously cored as described in Attachment A. The wells were developed, surveyed, monitored, and sampled in accordance with the approved Work Plan. On 20 May 2005, groundwater samples were collected from each well and submitted to a state-certified laboratory (STL Los Angeles) for analysis of volatile organic compounds (VOCs) by EPA Method 8260B. The following table lists the top of casing (TOC) elevations for each well, the depth to water measurements, and detected VOCs. A copy of the laboratory report is included in Appendix B.

	MWG001	MWG002	MWG002 (Duplicate)	MWC009
Date sampled	5/20/2005	5/20/2005	5/20/2005	5/20/2005
X coordinate (northing)*	1769156.15	1768458.71	1768458.71	1769372.12
Y coordinate (easting)*	6470702.48	6470701.06	6470701.06	6470654.21
TOC elevation (feet)**	54.13	54.78	54.78	53.99
Depth to water (feet)	66.05	67.06	67.06	64.34
Detected VOCs in μg/kg				
1,1-dichloroethene	**3.7**	<1	<1	**1,200**
1,1-dichloroethane	<1	<1	<1	**8.9 J**
1,2-dichloroethane	<0.5	<0.5	<0.5	**10 J**
cis-1,2-dichloroethene	**2.5**	<1	<1	**28**
Chloroform	<1	**0.54 J**	**0.64 J**	<25
Methylene chloride	<1	**0.64 J**	**0.83 J**	<25
Trichloroethene	**9.3**	**56**	**68**	**300**
trans-1,2-dichloroethene	<1	<1	<1	**22 J**
1,1,2-trichloroethane	<1	<1	<1	**8.8 J**

μg/kg = micrograms per kilogram
J = estimated concentration
*California State Plane North American Datum of 1983
**Elevation using North American Vertical Datum of 1988

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Based on this data, BRC plans to install two additional Gage Aquifer groundwater monitoring wells (MWG003 and MWG004) upgradient of well G-21. Well locations will be finalized once current water level elevation data is obtained. A figure with the proposed well locations will be submitted to the LARWQCB in an addendum prior to drilling activities. Work will be performed per the methodologies and procedures outlined in the approved Work Plan. A final well completion report for wells MWG001, MWG002, MWG003 and MWG004 will be submitted to the LARWQCB 60 days following receipt of sampling results for MWG003 and MWG004.

If you have any questions regarding this data package, please contact one of the undersigned at (619) 280-9210.

Sincerely yours,
HALEY & ALDRICH, INC.

Beth Breitenbach
Staff Environmental Geologist

Scott P. Zachary
Vice President

Attachments:
Appendix A - Boring Logs with Well Construction Details
Appendix B - Laboratory Report

G:\Projects\ENVIRONMENTAL\28882_C6ProjectMngmt\110 Gage and C Wells\LARWQCB data package\LARWQCB Data Ltr.doc

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Appendix A

BOE-C6-0105604

APPENDIX A

Boring Logs with Well Construction Details

BORING NUMBER MWC009

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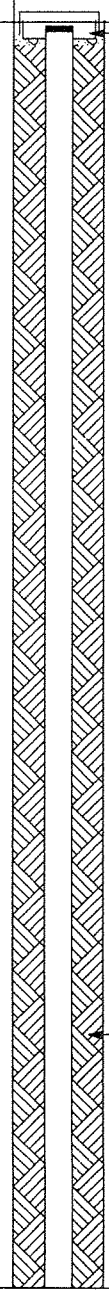
COMPANY	Haley & Aldrich	DATE STARTED	04/27/2005 08:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 18:00
LOCATION	Torrance, California	X-COORDINATE	6470654.21
DRILLING METHOD	Hollow Stem Auger	Y-COORDINATE	1769372.12
SAMPLING DEVICE	Core Barrel	TOTAL DEPTH	125.0
GROUND ELEVATION	54.68	LOCATION DESCRIPTION	Surveyed by Tait and Associates
DRILLER NAME	WDC Exploration and Wells	DEPTH TO WATER	--
LOGGED BY	Travis Hammond	MEASURING POINT ELEVATION	53.99
REMARKS		APPROVED BY	Paul Sones, CA P.G. # 6195

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Asphalt	0.3
							sandy gravel base material	0.7
5					CL		Hand-auger cuttings: stiff to very stiff, red-brown to dark brown, silty CLAY with sand and gravel, occasional concrete and asphalt chunks, no structure, no odor, moist, -fill-	8.0
10					SM		Hand-auger cuttings: stiff, yellow-brown to brown, silty SAND with clay, no structure, no odor, moist	10.5
		10					no recovery	
15		0						
20					ML		medium stiff, brown to light brown, SILT with very fine sand, no structure, no odor, low moisture	22.5
		50					no recovery	25.0
25		80			ML-SM		medium dense, light brown, very fine sandy SILT to silty very fine SAND, no structure, no odor, moist	28.0
					CL		stiff, light brown, silty CLAY, layered, no odor, low moisture	30.0
30		90		0.0	ML		medium stiff, brown, SILT with very fine sand and clay, no structure, no odor, moist	35.5
35		90		0.0	SM		medium dense, light brown, silty very fine SAND, no structure, no odor, low moisture	37.0
40					ML		medium stiff, brown, SILT with very fine sand and clay, no structure, no odor, moist	42.5
		70			CL		very stiff, light brown, silty CLAY, no structure, no odor, low moisture	43.5
							no recovery	45.0
45				0.0	SM		soft, light brown, silty very fine SAND, no structure, no odor, moist	46.5
		80			ML		medium stiff, light brown with rust staining, SILT with clay, layered, no odor, moist	48.0
					SP		dense, gray-brown to tan, poorly graded very fine SAND,	50.0

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/27/05

BORING NUMBER MWC009

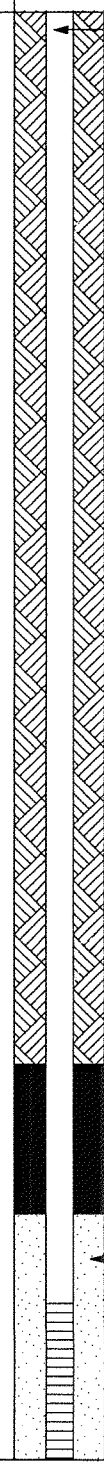
HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/27/2005 08:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 18:00

Continued from Previous Page

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							no structure, no odor, moist	
				0.0	SM		medium dense, light brown with rust staining, silty very fine SAND with weathered shell fragments up to 1/4-inch, layered, no odor, moist, partially cemented	52.0
		80			SP		hard, tan, cemented very fine to fine SAND, layered, no odor, dry	55.0
55				0.1	CH		medium stiff, gray-brown with rust staining, CLAY with silt, layered, no odor, moist	57.0
		70			ML		medium stiff, light brown with rust staining, very fine sandy SILT, layered, no odor, moist	58.5
							no recovery	60.0
60					CL		very stiff, light brown, silty CLAY, layered, no odor, low moisture	61.0
					SM			62.0
		60		0.0	SP		medium dense, light brown with rust staining, silty very fine to fine SAND, no structure, no odor, moist	63.0
							loose, tan to light brown, poorly graded very fine to fine SAND, layered, no odor, dry	65.0
65				0.7	CH		no recovery	66.0
		70			SP		very stiff, light brown with rust staining along bedding planes, CLAY with silt, layered, no odor, moist; dense, light brown, poorly graded very fine to fine SAND, layered, no odor, moist, 1/2-inch layers of silt at 133 feet bgs	
70								
		70		1.5				73.5
							no recovery	75.0
75				0.9	SP		medium dense, light brown, poorly graded very fine to fine SAND, no structure, no odor, wet	76.0
		70			ML		medium stiff, light olive-brown, very fine sandy SILT with clay layers and sand lenses up to 2-inches thick	78.5
							no recovery	80.0
80				0.6	SP		loose, light brown, poorly graded fine to medium SAND, layered, no odor, wet	80.5
					ML		medium stiff, light brown, very fine sandy SILT, layered, no odor, moist	81.5
		30					no recovery	85.0
85					SP		medium dense, light brown, poorly graded fine to medium SAND, no structure, no odor, wet, cemented layer at 88 feet bgs	
		60		0.5				88.0
							no recovery	90.0
90					SP		medium dense, light brown, poorly graded fine to medium SAND, no structure, no odor, wet	
		80		0.1				
95								96.5
		80			ML-SM		medium stiff, light brown, very fine sandy SILT to silty very fine SAND, layered, no odor, moist, 2-inch thick clay at 98-feet bgs	98.0
100					SP		dense, light brown to tan, poorly graded very fine to fine SAND, layered, no odor, moist, shell fragments up to 1/2-inch diameter from 98 to 98.5 feet bgs	102.0
		40					no recovery	105.0
105					SP			

WELL DIAGRAM



BORING NUMBER MWC009

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/27/2005 08:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 18:00

Continued from Previous Page

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
		50					dense, light brown to tan, poorly graded very fine to fine SAND, layered, no odor, moist, 4-inch layer of silty very fine sand at 106 feet bgs	107.5	
110								110.0	
					SP		no recovery	110.5	4" PVC Slotted Screen 0.02"
				1.1	SP		dense, light brown to tan, poorly graded very fine to fine SAND, layered, no odor, moist	112.5	
		50					dense, yellow-brown, poorly graded fine to medium SAND with cemented nodules up to 1-inch diameter, no structure, no odor, moist to wet	115.0	
115							no recovery		
					SP		dense, yellow-brown, poorly graded fine to medium SAND with cemented nodules up to 1-inch diameter, no structure, no odor, moist to wet	117.5	
		50					no recovery	120.0	
120					SM		very dense, light brown, silty very fine SAND, layered, no odor, moist	120.5	
		10					no recovery		Collapsed native material
125							Bottom of borehole at 125.0 feet.	125.0	

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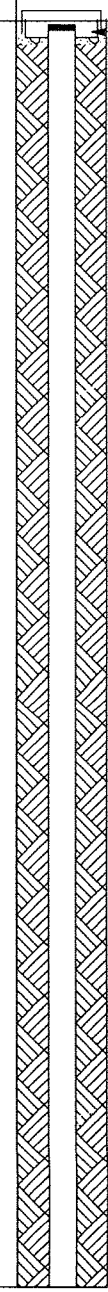
BORING NUMBER MWG001

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00
LOCATION	Torrance, California	X-COORDINATE	6470702.48
DRILLING METHOD	Sonic	Y-COORDINATE	1769156.15
SAMPLING DEVICE	Core Barrel	TOTAL DEPTH	190.0
GROUND ELEVATION	54.55	LOCATION DESCRIPTION	Surveyed by Tait and Associates
DRILLER NAME	Resonant Sonic International	DEPTH TO WATER	--
LOGGED BY	Travis Hammond	MEASURING POINT ELEVATION	54.13
REMARKS		APPROVED BY	Paul Sones, CA P.G. # 6195

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Asphalt	0.3
							sandy gravel base material	0.7
5					CL		Hand-auger cuttings: very stiff, red-brown to dark brown, silty CLAY with sand and gravel, maximum particle size (mps): 1/2-inch, no structure, no odor, moist, -fill-	8.0
10					SM		dense to very dense, brown to light brown, silty fine to medium SAND with clay, no structure, no odor, moist, -fill-	12.0
				0.5	CL		hard, yellow-brown, sandy silty CLAY, layered, no odor, low moisture	14.0
15		40					no recovery	20.0
20					ML		medium stiff, light brown to olive-brown, SILT with clay and very fine sand, layered, no odor, low moisture	
25		80		0.7				28.0
							no recovery	30.0
30				0.2	CL		stiff, brown, silty CLAY with very fine to fine sand, layered, no odor, low moisture, calcareous material along fractures	34.0
35		70			ML		medium stiff, light brown to brown, SILT with clay and very fine sand, no structure, no odor, low moisture	37.0
							no recovery	40.0
40					ML		medium stiff, light brown, clayey SILT with very fine sand, layered, no odor, moist	44.5
45		90			SM		dense, light brown, silty very fine SAND, no structure, no odor, low moisture	45.5
					CH		very stiff, gray-brown to light brown with rust staining, CLAY with silt, no structure, no odor, low moisture	46.5
					SP			

WELL DIAGRAM



HALEY & ALDRICH

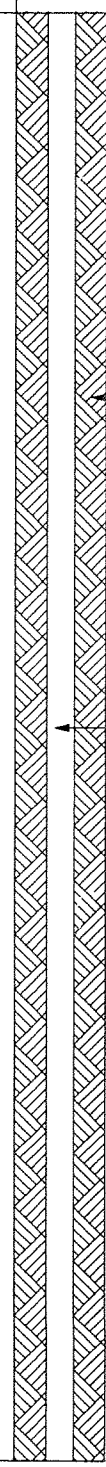
BORING NUMBER MWG001

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00

Continued from Previous Page

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
				0.4	SP		dense, gray-brown with rust staining, poorly graded very fine to fine SAND with silt, layered, no odor, low moisture, partially cemented with shell fragments from 48 to 49-feet bgs	51.5
55		15					no recovery	
60					SP		loose, light brown with rust staining, poorly graded very fine to fine SAND, no structure, no odor, moist	60.0
					ML		medium stiff, light brown, SILT with very fine sand, layered, no odor, moist	63.0
					SP		dense, light brown, poorly graded very fine SAND with silt, no structure, no odor, moist	63.5
65		100		0.1	SM		medium dense, light brown with rust staining, silty very fine SAND, layered, no odor, moist	65.0
					SP		dense, light brown, poorly graded very fine to fine SAND, layered, no odor, wet	66.5
70				0.5	SM		medium dense, olive-brown, very silty very fine SAND, layered, no odor, moist to wet	70.5
				0.5	ML		medium stiff, olive-brown, very fine sandy SILT, no structure, no odor, moist	72.0
75		60		1.4	SP		medium dense, light brown, poorly graded very fine to fine SAND with silt, no structure, no odor, wet, occasional silt layers up to 1-inch thick	74.0
							no recovery	76.0
80				0.6	ML		medium stiff, yellow-brown to light brown with rust staining, SILT with very fine sand and clay, layered, no odor, moist	80.0
					SP		dense, gray-brown, poorly graded fine to medium SAND, no odor, wet, silt layers up to 2 inches thick	82.5
85		75			SM		medium dense, olive-brown, silty very fine to fine SAND, no structure, no odor, moist	83.5
				2.0	SP		dense, olive-brown to light brown, poorly graded very fine to medium SAND with silt, layered, no odor, moist	85.5
							no recovery	87.5
90				0.1	SP		loose, olive-brown, poorly graded very fine to medium SAND, no structure, no odor, moist	90.0
					SM		dense, olive-brown, silty very fine to fine SAND, layered, no odor, moist	90.5
95		95						96.5
				0.0	SP		dense, olive-brown, poorly graded very fine to fine SAND with silt, layered, no odor, moist, rust staining along bedding planes	100.0
100					ML		stiff, olive-brown to gray-brown, clayey SILT with very fine sand, layered, no odor, moist	102.0
				0.0	SM		dense, light brown, silty fine to medium SAND with shell fragments up to 3/4-inch diameter, layered, no odor, moist	104.0
105		100			SP		dense, light brown, poorly graded very fine to medium SAND with silt, no structure, no odor, moist	107.0

WELL DIAGRAM



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BORING NUMBER MWG001

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00

Continued from Previous Page

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					ML		stiff, light brown to olive-brown, very fine sandy SILT, layered, no odor, moist	109.0	
110				0.2	SP		dense, light brown, poorly graded fine to medium SAND, no structure, no odor, moist to wet	111.0	
				5.2	ML		stiff, olive-brown with rust staining, very fine sandy SILT with clay, layered, no odor, moist	112.0	
					SW		dense, light brown, well graded very fine to medium SAND with shell fragments up to 1/4-inch diameter, no structure, no odor, moist	114.0	
115		80		1.8	SW-SP		dense, light brown with rust staining, well graded very fine to coarse SAND with cemented nodules up to 1/2-inch diameter, no structure, no odor, moist to wet	118.0	
							no recovery	120.0	
120					SW-SP		dense, light brown to yellow-brown, very fine to coarse SAND with gravel (cemented nodules) up to 1/2-inch diameter and occasional shell fragments up to 3/4-inch diameter, shell fragments for a layered structure, no odor, wet	124.5	
125		100		2.3	ML		medium stiff to stiff, olive-brown, very fine sandy SILT with clay, no structure, no odor, moist, color change to gray at 129.5 feet bgs	130.0	
130				0.1	SC		very dense, light brown, clayey fine to medium SAND, no structure, no odor, moist	131.5	
				0.5	CL		hard, gray-brown, CLAY with fine to medium sand, no structure, no odor, moist	132.0	
					CH		hard, gray-brown, CLAY, no structure, no odor, moist	133.5	
135		70		0.3	ML-MH		stiff, gray to gray-brown, SILT with very fine sand and clay to clayey SILT with very fine sand, layered, no odor, moist	137.0	8.75" Diameter Bentonite Pellets Seal (3/8-inch TR-30 coated pellets)
							no recovery	8.75" borehole 140.0	
140					ML-SM		medium stiff, gray, very fine sandy SILT to silty very fine SAND, no structure, no odor, moist	7.0" borehole	
145		85		0.1					7" Bentonite Pellets Seal (3/8-inch TR-30 coated pellets)
150				0.1	SP		dense, light brown, poorly graded very fine to fine SAND, occasional banding of slightly darker layers, no odor, moist	150.0	
155		85		0.3	CH		hard, light brown with rust staining, CLAY, layered, no odor, moist	157.0	
					SP		dense, light brown, poorly graded fine to medium SAND, layered, no odor, moist	157.5	
160					SP		no recovery	158.5	
				0.2	CH		dense, light brown to gray-brown, poorly graded very fine to medium SAND, layered banding, no odor, moist	160.0	
					SP		hard, mottled light brown and gray, CLAY, no structure, no	161.5	
								162.5	

HALEY & ALDRICH

BORING NUMBER MWG001

COMPANY	Haley & Aldrich	DATE STARTED	04/18/2005 16:00
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/22/2005 14:00

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DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
165		95					odor, moist dense, gray-brown, poorly graded very fine to fine SAND, no structure, no odor, moist, occasional lenses of fine to medium SAND, 4-inch thick layer of clay nodules at 168.5 feet bgs, color change to gray to gray-brown from 170 to 180 feet bgs, 6-inches of dark banding at 176 feet bgs, clayey sand layers up to 1/2-inch thick from 186 to 187 feet bgs		
				0.4					
170				0.2					7" Monterey Sand Filterpack (#2/16)
175		90			SP				2" PVC Slotted Screen 0.02"
180				0.0					
185		70							
							no recovery	186.5	Collapsed native material
190							Bottom of borehole at 190.0 feet.	190.0	

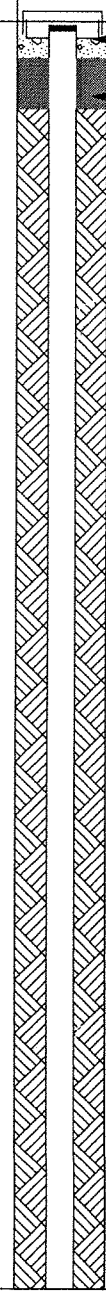
BORING NUMBER MWG002

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 16:00
LOCATION	Torrance, California	X-COORDINATE	6470701.06
DRILLING METHOD	Sonic	Y-COORDINATE	1768458.71
SAMPLING DEVICE	Core Barrel	TOTAL DEPTH	195.0
GROUND ELEVATION	55.03	LOCATION DESCRIPTION	Surveyed by Tait and Associates
DRILLER NAME	Resonant Sonic International	DEPTH TO WATER	--
LOGGED BY	Travis Hammond	MEASURING POINT ELEVATION	54.78
REMARKS		APPROVED BY	Paul Sones, CA P.G. # 6195

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Asphalt	0.3
							sandy gravel base material	0.7
5					CL		Hand-auger cuttings: stiff, red-brown to dark brown, silty CLAY with sand and gravel, no structure, no odor, moist, -fill-	8.0
					CL		stiff, yellow-brown, fine sandy CLAY, no structure, no odor, moist	9.5
10				0.2	CH		medium stiff, dark-brown, sandy CLAY with gravel up to 3/4-inch diameter, no structure, no odor, moist, -fill-	11.5
					SM		medium stiff, yellow-brown, silty very fine SAND, no structure, no odor, low moisture	14.0
15		70			CL		hard, brown, silty CLAY with very fine sand, layered, no odor, low moisture	17.0
							no recovery	20.0
20					ML		medium stiff, brown, SILT with clay and very fine sand, no structure, no odor, moist	25.0
25		85		0.1	CL		medium stiff, brown, silty CLAY, layered, no odor, moist	27.0
				0.0	CH		stiff, brown, CLAY with trace silt, no structure, no odor, moist	30.0
30				1.4	CL		medium stiff, silty CLAY, no structure, no odor, low moisture	32.0
					CH		stiff, brown, CLAY with silt, no structure, no odor, low moisture, occasional calcareous nodules up to 0.25-inch diameter	34.0
35		115		0.2	ML		medium stiff, brown, very fine sandy SILT, no structure, no odor, moist	40.5
40					CL		medium stiff, brown, silty CLAY with very fine sand, layered, no odor, moist	41.5
				0.4	ML		medium stiff, brown, very fine sandy SILT with clay, no structure, no odor, moist	46.0
45		100			CH		stiff, brown, CLAY with trace very fine sand, no structure, no odor, moist	48.5
				0.2	SM		dense, light brown to gray-brown with rust staining, silty	50.0

WELL DIAGRAM



H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

HALEY & ALDRICH

BORING NUMBER MWG002

COMPANY	Haley & Aldrich	**DATE STARTED**	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	**DATE COMPLETED**	04/28/2005 16:00

Continued from Previous Page

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					ML		very fine SAND, layered, no odor, low moisture medium stiff, brown, SILT with clay, no structure, no odor, moist	52.5	
55		100		0.4	SM		dense, light brown with rust staining, silty very fine SAND, no structure, no odor, low moisture, partially cemented with shell fragments up to 0.5-inch diameter 56 to 60 feet bgs, color change to tan 57 to 60 feet bgs		
60					CH		very stiff, brown, CLAY with silt, layered, no odor, moist	60.0 62.0	
				0.6	SM		dense, light brown, silty very fine SAND with clay, no structure, no odor, moist	64.5	
65		90			SP		medium dense, light brown, poorly graded very fine to fine SAND, no structure, no odor, low moisture	65.0	8.75" Diameter Cement/Bentonite Seal (Portland Cement with 5% Bentonite Grout)
				0.3	SM		dense, light brown, silty very fine SAND, layered, no odor, moist	70.5	
70					SP		dense, light brown, poorly graded fine to medium SAND, layered, no odor, moist		
75		100		0.3				75.5	
					ML		very stiff, light brown with rust staining along bedding planes, very fine sandy SILT with clay, layered, no odor, moist	77.5	
				0.1	SP		dense, light brown, poorly graded fine to medium SAND with silt, layered, no odor, moist	78.5	
80					ML		very stiff, light brown with rust staining along bedding planes, very fine sandy SILT with clay, layered, no odor, moist, 4-inch thick fine to medium SAND at 82.5 feet bgs		2" PVC Casing
85		90		0.2	SP		dense, light brown to gray-brown, poorly graded fine to medium SAND, layered, no odor, moist	84.0	
90					ML		stiff, light brown with rust staining, clayey SILT, layered, no odor, moist	90.0 91.0	
				0.8	SM		medium dense, light brown, silty very fine SAND, layered, no odor, moist	94.0	
95		110		13.2	SP		medium dense, light brown, poorly graded very fine to fine SAND, no structure, no odor, moist, silty layers from 97.5 to 98.5 feet bgs	98.5	
				44.0	ML		very stiff, light brown to olive-brown with rust staining, clayey SILT with trace very fine sand, layered, no odor, moist, layers of silty very fine sand up to 2-inches thick, color change to gray 102 to 102.5 feet bgs	102.5	
100				0.5	SW		dense, gray to gray-brown, well graded fine to coarse SAND with shell fragments and partially cemented clasts up to 0.75-inch diameter, layered, no odor, wet	104.0	
105		95			SP		very dense, gray, poorly graded very fine to fine SAND, layered, no odor, moist		

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

HALEY & ALDRICH

BORING NUMBER MWG002

COMPANY	Haley & Aldrich	DATE STARTED	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 16:00

Continued from Previous Page

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
110					SP		very dense, gray, poorly graded very fine to fine SAND, layered, no odor, moist		
				0.2				114.0	
115		90			SC		medium dense, gray (114 to 115.5 feet bgs), light brown (115.5 to 117 feet bgs), clayey fine SAND with shell fragments up to 0.5-inch diameter and partially cemented clasts up to 1.5-inch diameter, no structure, no odor, moist, heterogeneous		
				0.1				117.0	
120					SP		dense, light brown to yellow-brown, poorly graded very fine to medium SAND with cemented nodules and shell fragments up to 1-inch diameter, layered, no odor, moist to wet		
125		95		0.0					
130								131.0	
				0.6	SC		medium dense, gray-brown, clayey fine to medium SAND, no structure, no odor, moist	132.0	
135		95			CH		very stiff, gray-brown to olive-brown with rust staining, CLAY, no structure, no odor, low moisture		8.75" Bentonite Pellets Seal (3/8-inch TR-30 coated pellets)
								136.5	
				0.1	ML		stiff, gray to gray-brown, very fine sandy SILT with clay, layered, no odor, moist	8.75" borehole	
140								140.0	
					SM		medium dense, gray, silty very fine to fine SAND with clay, layered, no odor, moist	7" borehole	
145		95		0.0					
								146.5	
150					SP		dense, gray, poorly graded very fine to fine SAND with silt, layered, no odor, moist to wet		7" Bentonite Pellets Seal (3/8-inch TR-30 coated pellets)
				4.2				152.0	
155		100			ML-SM		stiff, gray to olive-brown, very fine sandy SILT to silty very fine SAND, no structure, no odor, moist		
								156.0	
					CH		medium stiff, gray, CLAY with silt and trace very fine sand, layered, no odor, moist	158.0	
					CH		very stiff, olive-brown, CLAY, no structure, no odor, low moisture	158.5	
160				9.0	CL		medium stiff, light gray, fine to medium sandy CLAY, no structure, no odor, moist	159.0	
					SP		dense, light gray, poorly graded fine to medium SAND, no structure, no odor, moist, 4-inch thick olive-brown clay layer at 160.5 feet bgs		

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

BORING NUMBER MWG002

HALEY & ALDRICH

COMPANY	Haley & Aldrich	DATE STARTED	04/25/2005 09:15
PROJECT NAME	BRC Former C-6 Facility, Torrance, CA	DATE COMPLETED	04/28/2005 16:00

Continued from Previous Page

DEPTH (ft BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
165		100					dense, light gray, poorly graded fine to medium SAND, no structure, no odor, moist, 4-inch thick olive-brown clay layer at 160.5 feet bgs		
170				2.7					
175		100		0.8					7" Monterey Sand Filterpack (#2/16)
180					SP				2" PVC Slotted Screen 0.02"
				0.6					
185		95							
				0.1					
190									
195								195.0	Collapsed native material
							Bottom of borehole at 195.0 feet.		

H&A CCI MWBS-MWCS.GPJ CH2MHILL.GDT 5/26/05

Appendix B

BOE-C6-0105617

APPENDIX B

Laboratory Report

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

May 25, 2005

STL LOT NUMBER: E5E200399
NELAP Certification Number: 01118CA/E87652
PO/CONTRACT: 050160-SEV01-002

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 202
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on May 20, 2005. These samples are associated with your Boeing former C6 facility Torrance, California project.

All applicable quality control procedures met method-specified acceptance criteria. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. The case narrative is an integral part of the report. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,

Diane Suzuki
Project Manager

CC: Project File

Page 1 of 36 total pages in this report.

BOE-C6-0105619

E5E200399

[redacted]

hain of ustody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

-4124 (0901)

ent: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 5/20/05	Chain of Custody Number: 142448
dress: 9040 FRIARS ROAD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619.280.9210	Lab Number: ESE260399	Page 1 of
y: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact: T. HAMMOND	Lab Contact: D. SUZUKI	
oject Name and Location (State): C6 TORRANCE	Carrier/Waybill Number:		
ntract/Purchase Order/Quote No.: 28882-110			

Sample I.D. No. and Description (ontainers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260B	Special Instructions/ Conditions of Receipt
B_HA052005_0001	5/20/05	10:30		X						3			X	
3_HA052005_0001	5/20/05	10:45		X						3			X	
3_HA052005_0002	5/20/05	11:00		X						3			X	
B_HA052005_0001	5/20/05	11:45		X						3			X	
IWG001_WG052005_0001	5/20/05	14:05		X						3			X	
WG002_WG052005_0001	5/20/05	16:25		X						3			X	
1WG002_WG052005_0002	5/20/05	16:30		X						3			X	
WC009_WG052005_0001	5/20/05	1815		X						3			X	

2

ossible Hazard Identification:] Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

urn Around Time Required:] 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

Relinquished By	Date: 5/20/05	Time: 21:05	1. Received By	Date: 5-20-05	Time: 21:05
Relinquished By	Date:	Time:	2. Received By	Date:	Time:
Relinquished By	Date:	Time:	3. Received By	Date:	Time:

omments: Temp = 4.8 + CF.4 = 5.2 MG

STRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

BOE-C6-0105620

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 5-20-05

LIMS Lot #: E5E200399 Quote #: 42295

Client Name: Haley & Aldrich Project: C-6 Torrance

Received by: MG Date/Time Received: 5-20-05/21:05

Delivered by : ☒ Client ☐ STL ☐ DHL ☐ Fed Ex ☐ UPS ☐ Other

********** **Initial / Date**

Custody Seal Status Cooler: ☐ Intact ☐ Broken ☒ None ..... MG 5-20-05

Custody Seal Status Samples: ☐ Intact ☐ Broken ☒ None .....

Custody Seal #(s): ☒ No Seal #.....

Sampler Signature on COC ☐ Yes ☐ No ☒ N/A...

IR Gun # 8 Correction Factor +.4 °C IR passed daily verification ☒ Yes ☐ No .....

Temperature - **BLANK** 4.8 °C +/- .4 CF = 5.2 °C .....

Temperature – **COOLER** (____ °C ____ °C ____ °C ____ °C) = ____ avg °C +/- ____ CF = ____ °C.....

Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒ N/A...

Sample Container(s): ☒ STL-LA ☐ Client .....

One COC/Multiple coolers: ☐ Yes- # coolers ____ All within temp criteria ☐ Yes ☐ No ☒ N/A....

One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒ N/A ...

Samples: ☒ Intact ☐ Broken ☐ Other ....

pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☒ N/A..

Anomalies: ☒ No ☐ Yes – complete CUR and Create NCM NCM # ____ .....

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ N/A....

Labeled by: MG Labeling checked .....

****

Turn Around Time: ☐ RUSH–24HR ☒ RUSH–48HR ☐ RUSH–72HR ☐ NORMAL .....

Short-Hold Notification: ☐ pH ☐ Wet Chem ☐ Metals (Filter/Pres) ☐ Encore ☐ >1/2 HT expired...

Outside Analysis(es) (Test/Lab/Date Sent Out) : NA

.....

.....

..... MG 5-20-05

********** LEAVE NO BLANK SPACES ; USE N/A **********

Headspace Anomaly ☒ N/A MG 5-20-05

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm
		☐ > 6mm			☐ > 6mm

LIMS Lot # E5E200399

PROJECT RECEIPT CHECKLIST Cont'd

Fraction	1-8													
VOAH/ *	3													
	3MG													

* VOA with headspace/bubbles < 6mm

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form

☒ N/A MG 5-20-05

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Voa Vials with Bubbles > 6mm
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

Comments:

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

Logged by/Date: MG 5-20-05

PM Review/Date: MVC 5/23/05

SEVERN TRENT STL

Analytical Report

BOE-C6-0105623

EXECUTIVE SUMMARY - Detection Highlights

E5E200399

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
EB_HA052005_0001 05/20/05 11:45 004				
Acetone	15	10	ug/L	SW846 8260B
2-Butanone	11	5.0	ug/L	SW846 8260B
MWG001_WG052005_0001 05/20/05 14:05 005				
1,1-Dichloroethene	3.7	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.5	1.0	ug/L	SW846 8260B
Trichloroethene	9.3	1.0	ug/L	SW846 8260B
MWG002_WG052005_0001 05/20/05 16:25 006				
Methylene chloride	0.64 J	1.0	ug/L	SW846 8260B
Chloroform	0.54 J	1.0	ug/L	SW846 8260B
Trichloroethene	56	1.0	ug/L	SW846 8260B
MWG002_WG052005_0002 05/20/05 16:30 007				
Methylene chloride	0.83 J	1.0	ug/L	SW846 8260B
Chloroform	0.64 J	1.0	ug/L	SW846 8260B
Trichloroethene	68	1.0	ug/L	SW846 8260B
MWC009_WG052005_0001 05/20/05 18:15 008				
1,1-Dichloroethene	1200	25	ug/L	SW846 8260B
trans-1,2-Dichloroethene	22 J	25	ug/L	SW846 8260B
1,1-Dichloroethane	8.9 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	28	25	ug/L	SW846 8260B
Trichloroethene	300	25	ug/L	SW846 8260B
1,1,2-Trichloroethane	8.8 J	25	ug/L	SW846 8260B
1,2-Dichloroethane	10 J	12	ug/L	SW846 8260B

BOE-C6-0105624

METHODS SUMMARY

E5E200399

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

BOE-C6-0105625

SAMPLE SUMMARY

E5E200399

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HA2PP	001	TB_HA052005_0001	05/20/05	10:30
HA2PQ	002	FB_HA052005_0001	05/20/05	10:45
HA2PR	003	FB_HA052005_0002	05/20/05	11:00
HA2PT	004	EB_HA052005_0001	05/20/05	11:45
HA2PV	005	MWG001_WG052005_0001	05/20/05	14:05
HA2PW	006	MWG002_WG052005_0001	05/20/05	16:25
HA2PX	007	MWG002_WG052005_0002	05/20/05	16:30
HA2P0	008	MWC009_WG052005_0001	05/20/05	18:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

BOE-C6-0105626

Haley & Aldrich Inc.

Client Sample ID: TB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-001 **Work Order #...:** HA2PP1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 10:30 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 09:49
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: TB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-001 **Work Order #...:** HA2PP1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	95	(80 - 130)

BOE-C6-0105628

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-002 **Work Order #...:** HA2PQ1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 10:45 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 10:13
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-002 **Work Order #...:** HA2PQ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	94	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
Toluene-d8	91	(80 - 130)

BOE-C6-0105630

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-003 **Work Order #...:** HA2PR1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 11:00 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 10:36
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0105631

Haley & Aldrich Inc.

Client Sample ID: FB_HA052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-003 **Work Order #...:** HA2PR1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	95	(80 - 130)

BOE-C6-0105632

Haley & Aldrich Inc.

Client Sample ID: EB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-004 **Work Order #...:** HA2PT1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 11:45 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 11:04
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	**15**	**10**	**ug/L**	**3.0**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	**11**	**5.0**	**ug/L**	**3.0**
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0105633

Haley & Aldrich Inc.

Client Sample ID: EB_HA052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-004 **Work Order #...:** HA2PT1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	90	(80 - 130)

BOE-C6-0105634

Haley & Aldrich Inc.

Client Sample ID: MWG001_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-005 **Work Order #...:** HA2PV1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 14:05 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 11:28
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	**3.7**	**1.0**	**ug/L**	**0.30**
Methylene chloride	ND	1.0	ug/L	0.30
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	**2.5**	**1.0**	**ug/L**	**0.30**
Chloroform	ND	1.0	ug/L	0.30
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**9.3**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0105635

Haley & Aldrich Inc.

Client Sample ID: MWG001_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-005 **Work Order #...:** HA2PV1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	95	(80 - 130)

BOE-C6-0105636

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-006 **Work Order #...:** HA2PW1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 16:25 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 11:51
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	**0.64 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**0.54 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**56**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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BOE-C6-0105637

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-006 **Work Order #...:** HA2PW1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	93	(75 - 130)
1,2-Dichloroethane-d4	101	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0105638

Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-007 **Work Order #...:** HA2PX1AA **Matrix.....:** WG
Date Sampled...: 05/20/05 16:30 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 12:15
Dilution Factor: 1
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	1.0	ug/L	0.40
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
Trichlorofluoromethane	ND	2.0	ug/L	0.30
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	**0.83 J**	**1.0**	**ug/L**	**0.30**
Methyl tert-butyl ether	ND	1.0	ug/L	0.50
Carbon disulfide	ND	1.0	ug/L	0.30
Acetone	ND	10	ug/L	3.0
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
2,2-Dichloropropane	ND	1.0	ug/L	0.30
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.30
Chloroform	**0.64 J**	**1.0**	**ug/L**	**0.30**
Bromochloromethane	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
2-Butanone	ND	5.0	ug/L	3.0
1,1-Dichloropropene	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	0.50	ug/L	0.30
1,2-Dibromoethane	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	**68**	**1.0**	**ug/L**	**0.30**
Bromodichloromethane	ND	1.0	ug/L	0.30
4-Methyl-2-pentanone	ND	5.0	ug/L	3.0
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	0.50	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
2-Hexanone	ND	5.0	ug/L	3.0
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
Vinyl chloride	ND	0.50	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.80
Styrene	ND	1.0	ug/L	0.30

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Haley & Aldrich Inc.

Client Sample ID: MWG002_WG052005_0002

GC/MS Volatiles

Lot-Sample #...: E5E200399-007 **Work Order #...:** HA2PX1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	1.0	ug/L	0.30
Isopropylbenzene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
1,2,3-Trichloropropane	ND	1.0	ug/L	0.40
n-Propylbenzene	ND	1.0	ug/L	0.40
Bromobenzene	ND	1.0	ug/L	0.30
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.20
2-Chlorotoluene	ND	1.0	ug/L	0.30
4-Chlorotoluene	ND	1.0	ug/L	0.30
tert-Butylbenzene	ND	1.0	ug/L	0.20
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.30
sec-Butylbenzene	ND	1.0	ug/L	0.30
p-Isopropyltoluene	ND	1.0	ug/L	0.30
1,3-Dichlorobenzene	ND	1.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.30
n-Butylbenzene	ND	1.0	ug/L	0.30
1,2-Dichlorobenzene	ND	1.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.70
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.30
Hexachlorobutadiene	ND	1.0	ug/L	0.30
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Tert-amyl methyl ether	ND	2.0	ug/L	0.50
Acrylonitrile	ND	20	ug/L	10
Tert-butyl ethyl ether	ND	2.0	ug/L	0.50
t-Butanol	ND	25	ug/L	6.0
Iodomethane	ND	2.0	ug/L	1.0
Isopropyl ether	ND	2.0	ug/L	0.50
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Tetrahydrofuran	ND	10	ug/L	2.0
Vinyl acetate	ND	5.0	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	112	(65 - 135)
Toluene-d8	90	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0105640

Haley & Aldrich Inc.

Client Sample ID: MWC009_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-008 **Work Order #...:** HA2P01AA **Matrix.....:** WG
Date Sampled...: 05/20/05 18:15 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 12:38
Dilution Factor: 25
Analyst ID.....: 015590 **Instrument ID..:** MSR
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dichlorodifluoromethane	ND	25	ug/L	10
Chloromethane	ND	50	ug/L	7.5
Chloroethane	ND	50	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Trichlorofluoromethane	ND	50	ug/L	7.5
1,1-Dichloroethene	**1200**	**25**	**ug/L**	**7.5**
Methylene chloride	ND	25	ug/L	7.5
Methyl tert-butyl ether	ND	25	ug/L	12
Carbon disulfide	ND	25	ug/L	7.5
Acetone	ND	250	ug/L	75
trans-1,2-Dichloroethene	**22 J**	**25**	**ug/L**	**7.5**
1,1-Dichloroethane	**8.9 J**	**25**	**ug/L**	**5.0**
2,2-Dichloropropane	ND	25	ug/L	7.5
cis-1,2-Dichloroethene	**28**	**25**	**ug/L**	**7.5**
Chloroform	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
2-Butanone	ND	120	ug/L	75
1,1-Dichloropropene	ND	25	ug/L	7.5
Carbon tetrachloride	ND	12	ug/L	7.5
1,2-Dibromoethane	ND	25	ug/L	7.5
Benzene	ND	25	ug/L	7.5
Trichloroethene	**300**	**25**	**ug/L**	**7.5**
Bromodichloromethane	ND	25	ug/L	7.5
4-Methyl-2-pentanone	ND	120	ug/L	75
Toluene	ND	25	ug/L	7.5
1,1,2-Trichloroethane	**8.8 J**	**25**	**ug/L**	**7.5**
1,2-Dichloroethane	**10 J**	**12**	**ug/L**	**10**
Tetrachloroethene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	75
Dibromochloromethane	ND	25	ug/L	10
Chlorobenzene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
Ethylbenzene	ND	25	ug/L	5.0
Vinyl chloride	ND	12	ug/L	7.5
Xylenes (total)	ND	25	ug/L	20
Styrene	ND	25	ug/L	7.5

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BOE-C6-0105641

Haley & Aldrich Inc.

Client Sample ID: MWC009_WG052005_0001

GC/MS Volatiles

Lot-Sample #...: E5E200399-008 **Work Order #...:** HA2P01AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	25	ug/L	7.5
Isopropylbenzene	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	10
1,2,3-Trichloropropane	ND	25	ug/L	10
n-Propylbenzene	ND	25	ug/L	10
Bromobenzene	ND	25	ug/L	7.5
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
1,2,4-Trimethylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
p-Isopropyltoluene	ND	25	ug/L	7.5
1,3-Dichlorobenzene	ND	25	ug/L	7.5
1,4-Dichlorobenzene	ND	25	ug/L	7.5
n-Butylbenzene	ND	25	ug/L	7.5
1,2-Dichlorobenzene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	18
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
Hexachlorobutadiene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
Acrolein	ND	500	ug/L	300
Tert-amyl methyl ether	ND	50	ug/L	12
Acrylonitrile	ND	500	ug/L	250
Tert-butyl ethyl ether	ND	50	ug/L	12
t-Butanol	ND	620	ug/L	150
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
2-Chloroethyl vinyl ether	ND	120	ug/L	50
Tetrahydrofuran	ND	250	ug/L	50
Vinyl acetate	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	92	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

BOE-C6-0105642

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E5E200399

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WG	SW846 8260B		5143623	5143394
002	WG	SW846 8260B		5143623	5143394
003	WG	SW846 8260B		5143623	5143394
004	WG	SW846 8260B		5143623	5143394
005	WG	SW846 8260B		5143623	5143394
006	WG	SW846 8260B		5143623	5143394
007	WG	SW846 8260B		5143623	5143394
008	WG	SW846 8260B		5143623	5143394

BOE-C6-0105644

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AA **Matrix.....:** WATER
MB Lot-Sample #: E5E230000-623

Prep Date.....: 05/23/05 **Analysis Time..:** 09:18
Analysis Date..: 05/23/05 **Prep Batch #...:** 5143623 **Instrument ID..:** MSR
Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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BOE-C6-0105645

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BOE-C6-0105646

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 08:32
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	171 a	(40 - 160)	SW846 8260B
Chloromethane	160 a	(60 - 140)	SW846 8260B
Chloroethane	129	(60 - 140)	SW846 8260B
Bromomethane	182 a	(60 - 140)	SW846 8260B
Trichlorofluoromethane	126	(70 - 130)	SW846 8260B
1,1-Dichloroethene	**131**	**(65 - 135)**	**SW846 8260B**
Methylene chloride	107	(70 - 130)	SW846 8260B
Methyl tert-butyl ether	112	(70 - 130)	SW846 8260B
Carbon disulfide	115	(70 - 130)	SW846 8260B
Acetone	146 a	(60 - 140)	SW846 8260B
trans-1,2-Dichloroethene	110	(70 - 130)	SW846 8260B
1,1-Dichloroethane	116	(70 - 130)	SW846 8260B
Dibromomethane	108	(70 - 130)	SW846 8260B
2,2-Dichloropropane	106	(70 - 130)	SW846 8260B
cis-1,2-Dichloroethene	96	(70 - 130)	SW846 8260B
Chloroform	112	(70 - 130)	SW846 8260B
Bromochloromethane	108	(70 - 130)	SW846 8260B
1,1,1-Trichloroethane	116	(70 - 130)	SW846 8260B
2-Butanone	129	(60 - 140)	SW846 8260B
1,1-Dichloropropene	113	(70 - 130)	SW846 8260B
1,2-Dichloropropane	104	(70 - 130)	SW846 8260B
Carbon tetrachloride	120	(70 - 130)	SW846 8260B
1,3-Dichloropropane	93	(70 - 130)	SW846 8260B
1,2-Dibromoethane	87	(70 - 130)	SW846 8260B
cis-1,3-Dichloropropene	115	(70 - 130)	SW846 8260B
Benzene	**106**	**(75 - 125)**	**SW846 8260B**
trans-1,3-Dichloropropene	88	(70 - 130)	SW846 8260B
Trichloroethene	**105**	**(75 - 135)**	**SW846 8260B**
Bromodichloromethane	117	(70 - 130)	SW846 8260B
4-Methyl-2-pentanone	103	(60 - 140)	SW846 8260B
Naphthalene	86	(60 - 140)	SW846 8260B
Toluene	**93**	**(75 - 125)**	**SW846 8260B**
1,1,2-Trichloroethane	92	(70 - 130)	SW846 8260B

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BOE-C6-0105647

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2-Dichloroethane	113	(70 - 130)	SW846 8260B
Tetrachloroethene	93	(70 - 130)	SW846 8260B
2-Hexanone	99	(60 - 140)	SW846 8260B
Dibromochloromethane	99	(70 - 130)	SW846 8260B
Chlorobenzene	**89**	**(75 - 125)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	94	(70 - 130)	SW846 8260B
Ethylbenzene	94	(70 - 130)	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	125	(60 - 140)	SW846 8260B
m-Xylene & p-Xylene	92	(70 - 130)	SW846 8260B
Vinyl chloride	138	(60 - 140)	SW846 8260B
o-Xylene	93	(70 - 130)	SW846 8260B
Styrene	93	(70 - 130)	SW846 8260B
Bromoform	96	(70 - 130)	SW846 8260B
Isopropylbenzene	87	(70 - 130)	SW846 8260B
1,1,2,2-Tetrachloroethane	82	(70 - 130)	SW846 8260B
1,2,3-Trichloropropane	85	(70 - 130)	SW846 8260B
n-Propylbenzene	92	(70 - 130)	SW846 8260B
Bromobenzene	89	(70 - 130)	SW846 8260B
1,3,5-Trimethylbenzene	93	(70 - 130)	SW846 8260B
2-Chlorotoluene	90	(70 - 130)	SW846 8260B
4-Chlorotoluene	92	(70 - 130)	SW846 8260B
tert-Butylbenzene	94	(70 - 130)	SW846 8260B
1,2,4-Trimethylbenzene	91	(70 - 130)	SW846 8260B
sec-Butylbenzene	94	(70 - 130)	SW846 8260B
p-Isopropyltoluene	88	(70 - 130)	SW846 8260B
1,3-Dichlorobenzene	83	(70 - 130)	SW846 8260B
1,4-Dichlorobenzene	82	(70 - 130)	SW846 8260B
n-Butylbenzene	92	(70 - 130)	SW846 8260B
1,2-Dichlorobenzene	82	(70 - 130)	SW846 8260B
1,2-Dibromo-3-chloro-propane	88	(60 - 140)	SW846 8260B
1,2,4-Trichloro-benzene	86	(70 - 130)	SW846 8260B
Hexachlorobutadiene	90	(70 - 130)	SW846 8260B
1,2,3-Trichlorobenzene	83	(70 - 130)	SW846 8260B
Tert-amyl methyl ether	103	(70 - 130)	SW846 8260B

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BOE-C6-0105648

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tert-butyl ethyl ether	105	(70 - 130)	SW846 8260B
t-Butanol	248 a	(40 - 150)	SW846 8260B
Isopropyl ether	117	(70 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	89	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

BOE-C6-0105649

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 08:32
Dilution Factor: 1 **Instrument ID..:** MSR
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	17.1 a	ug/L	171	SW846 8260B
Chloromethane	10.0	16.0 a	ug/L	160	SW846 8260B
Chloroethane	10.0	12.9	ug/L	129	SW846 8260B
Bromomethane	10.0	18.2 a	ug/L	182	SW846 8260B
Trichlorofluoromethane	10.0	12.6	ug/L	126	SW846 8260B
1,1-Dichloroethene	**10.0**	**13.1**	**ug/L**	**131**	**SW846 8260B**
Methylene chloride	10.0	10.7	ug/L	107	SW846 8260B
Methyl tert-butyl ether	10.0	11.2	ug/L	112	SW846 8260B
Carbon disulfide	50.0	57.6	ug/L	115	SW846 8260B
Acetone	50.0	73.1 a	ug/L	146	SW846 8260B
trans-1,2-Dichloroethene	10.0	11.0	ug/L	110	SW846 8260B
1,1-Dichloroethane	10.0	11.6	ug/L	116	SW846 8260B
Dibromomethane	10.0	10.8	ug/L	108	SW846 8260B
2,2-Dichloropropane	10.0	10.6	ug/L	106	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.55	ug/L	96	SW846 8260B
Chloroform	10.0	11.2	ug/L	112	SW846 8260B
Bromochloromethane	10.0	10.8	ug/L	108	SW846 8260B
1,1,1-Trichloroethane	10.0	11.6	ug/L	116	SW846 8260B
2-Butanone	50.0	64.4	ug/L	129	SW846 8260B
1,1-Dichloropropene	10.0	11.3	ug/L	113	SW846 8260B
1,2-Dichloropropane	10.0	10.4	ug/L	104	SW846 8260B
Carbon tetrachloride	10.0	12.0	ug/L	120	SW846 8260B
1,3-Dichloropropane	10.0	9.31	ug/L	93	SW846 8260B
1,2-Dibromoethane	10.0	8.73	ug/L	87	SW846 8260B
cis-1,3-Dichloropropene	10.0	11.5	ug/L	115	SW846 8260B
Benzene	**10.0**	**10.6**	**ug/L**	**106**	**SW846 8260B**
trans-1,3-Dichloropropene	10.0	8.85	ug/L	88	SW846 8260B
Trichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Bromodichloromethane	10.0	11.7	ug/L	117	SW846 8260B
4-Methyl-2-pentanone	50.0	51.3	ug/L	103	SW846 8260B
Naphthalene	10.0	8.65	ug/L	86	SW846 8260B
Toluene	**10.0**	**9.32**	**ug/L**	**93**	**SW846 8260B**
1,1,2-Trichloroethane	10.0	9.18	ug/L	92	SW846 8260B

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BOE-C6-0105650

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2-Dichloroethane	10.0	11.3	ug/L	113	SW846 8260B
Tetrachloroethene	10.0	9.30	ug/L	93	SW846 8260B
2-Hexanone	50.0	49.5	ug/L	99	SW846 8260B
Dibromochloromethane	10.0	9.88	ug/L	99	SW846 8260B
Chlorobenzene	**10.0**	**8.92**	**ug/L**	**89**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	10.0	9.40	ug/L	94	SW846 8260B
Ethylbenzene	10.0	9.42	ug/L	94	SW846 8260B
1,1,2-Trichlorotrifluoro-ethane	10.0	12.5	ug/L	125	SW846 8260B
m-Xylene & p-Xylene	20.0	18.4	ug/L	92	SW846 8260B
Vinyl chloride	10.0	13.8	ug/L	138	SW846 8260B
o-Xylene	10.0	9.34	ug/L	93	SW846 8260B
Styrene	10.0	9.34	ug/L	93	SW846 8260B
Bromoform	10.0	9.62	ug/L	96	SW846 8260B
Isopropylbenzene	10.0	8.71	ug/L	87	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	8.22	ug/L	82	SW846 8260B
1,2,3-Trichloropropane	10.0	8.46	ug/L	85	SW846 8260B
n-Propylbenzene	10.0	9.24	ug/L	92	SW846 8260B
Bromobenzene	10.0	8.89	ug/L	89	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.27	ug/L	93	SW846 8260B
2-Chlorotoluene	10.0	9.05	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.24	ug/L	92	SW846 8260B
tert-Butylbenzene	10.0	9.36	ug/L	94	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.11	ug/L	91	SW846 8260B
sec-Butylbenzene	10.0	9.44	ug/L	94	SW846 8260B
p-Isopropyltoluene	10.0	8.85	ug/L	88	SW846 8260B
1,3-Dichlorobenzene	10.0	8.30	ug/L	83	SW846 8260B
1,4-Dichlorobenzene	10.0	8.24	ug/L	82	SW846 8260B
n-Butylbenzene	10.0	9.15	ug/L	92	SW846 8260B
1,2-Dichlorobenzene	10.0	8.17	ug/L	82	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	8.77	ug/L	88	SW846 8260B
1,2,4-Trichloro-benzene	10.0	8.55	ug/L	86	SW846 8260B
Hexachlorobutadiene	10.0	8.96	ug/L	90	SW846 8260B
1,2,3-Trichlorobenzene	10.0	8.33	ug/L	83	SW846 8260B
Tert-amyl methyl ether	10.0	10.3	ug/L	103	SW846 8260B

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BOE-C6-0105651

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA42K1AC **Matrix.....:** WATER
LCS Lot-Sample#: E5E230000-623

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Tert-butyl ethyl ether	10.0	10.5	ug/L	105	SW846 8260B
t-Butanol	50.0	124 a	ug/L	248	SW846 8260B
Isopropyl ether	10.0	11.7	ug/L	117	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(75 - 130)
1,2-Dichloroethane-d4	100	(65 - 135)
Toluene-d8	89	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E5E200399	**Work Order #...:**	HA2P01AC-MS	**Matrix.....:**	WG
MS Lot-Sample #:	E5E200399-008		HA2P01AD-MSD		
Date Sampled...:	05/20/05 18:15	**Date Received..:**	05/20/05 21:05	**MS Run #.....:**	5143394
Prep Date.....:	05/23/05	**Analysis Date..:**	05/23/05		
Prep Batch #...:	5143623	**Analysis Time..:**	15:44		
Dilution Factor:	25	**Analyst ID.....:**	015590	**Instrument ID..:**	MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**55 a**	**(65 - 135)**			**SW846 8260B**
	34 a	**(65 - 135)**	**4.2**	**(0-25)**	**SW846 8260B**
Benzene	**108**	**(75 - 125)**			**SW846 8260B**
	107	**(75 - 125)**	**0.74**	**(0-25)**	**SW846 8260B**
Trichloroethene	**91**	**(75 - 135)**			**SW846 8260B**
	90	**(75 - 135)**	**0.81**	**(0-25)**	**SW846 8260B**
Toluene	**98**	**(75 - 125)**			**SW846 8260B**
	98	**(75 - 125)**	**0.49**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 125)**			**SW846 8260B**
	96	**(75 - 125)**	**2.2**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	98	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
	101	(65 - 135)
Toluene-d8	91	(80 - 130)
	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E5E200399 **Work Order #...:** HA2P01AC-MS **Matrix.....:** WG
MS Lot-Sample #: E5E200399-008 HA2P01AD-MSD
Date Sampled...: 05/20/05 18:15 **Date Received..:** 05/20/05 21:05 **MS Run #.....:** 5143394
Prep Date.....: 05/23/05 **Analysis Date..:** 05/23/05
Prep Batch #...: 5143623 **Analysis Time..:** 15:44
Dilution Factor: 25 **Analyst ID.....:** 015590 **Instrument ID..:** MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**1200**	**250**	**1300**	**ug/L**	**55 a**		**SW846 8260B**
	1200	**250**	**1250**	**ug/L**	**34 a**	**4.2**	**SW846 8260B**
Benzene	**ND**	**250**	**269**	**ug/L**	**108**		**SW846 8260B**
	ND	**250**	**267**	**ug/L**	**107**	**0.74**	**SW846 8260B**
Trichloroethene	**300**	**250**	**532**	**ug/L**	**91**		**SW846 8260B**
	300	**250**	**528**	**ug/L**	**90**	**0.81**	**SW846 8260B**
Toluene	**ND**	**250**	**244**	**ug/L**	**98**		**SW846 8260B**
	ND	**250**	**245**	**ug/L**	**98**	**0.49**	**SW846 8260B**
Chlorobenzene	**ND**	**250**	**234**	**ug/L**	**94**		**SW846 8260B**
	ND	**250**	**239**	**ug/L**	**96**	**2.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 130)
	98	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
	101	(65 - 135)
Toluene-d8	91	(80 - 130)
	91	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

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Letter of Transmittal

Date	9 June 2005
File Number	28882-605
From	Mark Thomson
To	Boeing Realty Corporation 4900 Conant, Building 1 Long Beach, California 90808
Attention	Stephanie Sibbett
Subject	Former C-6 Facility Documents

Copies	Date	Description
1	9 June 05	Preliminary Data Package for the Installation of Gage Aquifer and C-Sand Monitoring Wells, Former C-6, Los Angeles, CA

Transmitted via ☐ First class mail ☒ Overnight express ☐ Hand delivery ☐ Other

Remarks