TETRA TECH

NOR-00486

August 10, 2009

Mr. John Hall
Peconic River Sportsman's Club
389 River Road
Manorville, New York 11949-1405

Subject: JUNE 2009 WATER RESULTS, OFF-SITE GROUNDWATER, SOUTHERN AREA, NWIRP CALVERTON, NEW YORK

Encl: (1) June 2009 Water Results, Off-site Groundwater, Southern Area, NWIRP Calverton

Dear Mr. Hall:

On behalf of the Navy, please find enclosed results of water testing conducted on your property on June 24, 2009. These samples were collected in support of a groundwater investigation that the Navy is conducting on property to the north and east of your club. A copy of these results is being forwarded to Suffolk County Department of Health Services.

Sample locations and descriptions are as follows.

CA-PRSC-01	Main Lodge, kitchen sink.
CA-PRSC-02-01	Activity Center, prior to carbon units.
CA-PRSC-02-02	Activity Center, between carbon units.
CA-PRSC-02-03	Activity Center, after carbon units, from sink in main area.
CA-PRSC-03	Private Residence, outside spigot, front of residence.
CA-PRSC-04	Fire Suppression well

Please note that because the well was shut down, a water sample was not collected at the Pistol Range Trailer (CA-PRSC-05) in June 2009.

The results of the testing are attached. Volatile organic compounds were not detected in water samples CA-PRSC-03 and CA-PRSC-04. Volatile organic compounds were detected in the untreated water at the Activity Center (CA-PRSC-02-01) at a concentration above drinking water standards. In particular, 1,1-dichloroethane was detected at a concentration of 12 micrograms per liter. This concentration is consistent with previous detections at this location (Table 1). The drinking water standard for this chemical is 5 micrograms per liter. Due to the 1,1-dichloroethane detections in CA-PRSC-02-02 in December 2008 and June 2009, the Navy will be replacing the carbon units in the near future. Based on sample results for CA-PRSC-02-02 (between carbon units) and CA-PRSC-02-03 (after treatment), the treatment unit at the Activity Center is still effective in reducing the concentration of this chemical to less than the drinking water standard.

The next round of water sampling at your facility is scheduled for September 16, 2009. If you have any questions, please contact Lora Fly at (757) 444-0781.

Tetra Tech NUS, Inc.
5700 Lake Wright Drive, Suite 309, Norfolk, VA 23502
Tel 757.461.3768 Fax 757.461.4148 www.ttnus.com

TETRA TECH

Sincerely,

Robert M. Sok, P.G.
Project Manager

Cc

Andrew Rapiejko (SCDHS)
Lora Fly (NAVFAC)

Tetra Tech NUS, Inc.
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TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
SOUTHERN AREA
(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	CA-PRSC-01 (Jan-08)	CA-PRSC-01 (June-08)	CA-PRSC-01 (Aug-08)	CA-PRSC-01 (Dec-08)	CA-PRSC-01 (Mar-09)	CA-PRSC-01 (June-09)	CA-PRSC-02-01 (Jan-08)	CA-PRSC-02-01 DUP (Jan-08)	CA-PRSC-02-01 (June-08)	CA-PRSC-02-01 (Aug-08)	CA-PRSC-02-01 (Dec-08)	CA-PRSC-02-01 DUP (Dec-08)	CA-PRSC-02-01 (Mar-09)	CA-PRSC-02-01 (June-09)	CA-PRSC-02-01 DUP (June-09)
Volatile Organic Compounds																		
1,1-Dichloroethane	75-34-3		5							**12**	**12**	**7**	**13**	**12**	**12**	**12**	**12**	**12**
1,1-Dichloroethene	75-35-4	7	5								5 J	4	4	5	5	3.3 J	3.6 J	3.5 J
1,2-Dichloroethane	107-06-2	5	5							0.5 J	0.6 J	0.6 J		0.4 J	0.4 J			
1,2-Dichloroethylene (total)	540-59-0		5							2 J	1 J	2 J	1 J	1 J	1 J			
Chloromethane	74-87-3		5															
cis-1,2-Dichloroethene	156-59-2		5							2 J	1 J	2	1 J	1	1		1.3 J	1.3 J
Isopropylbenzene	98-82-8		5															
Methyl tert-butyl ether	1634-04-4		50															
Trichloroethene	79-01-6	5	5							0.8 J	0.8 J	0.7 J	0.6 J	0.9 J	0.9 J			
Vinyl Chloride	75-01-4	2										1 J						
Benzene	71-43-2	5	5											0.3 J	0.3 J			
Napthalene	91-20-3								3.4 J									

Units are in µg/L (micrograms per liter)

CAS-Chemical Abstracts Service

MCL- Maximum contaminant level

NYSDOH-New York State Department of Health

Blank cells - No criteria or not detected

Bolded values are detections above criteria

1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH.

*Acetone was detected in some samples but is considered a lab contaminant

Methylene Chloride is excluded from the analytical table due to detections being a lab contaminant

TABLE 1
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SOUTHERN AREA
(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	CA-PRSC-02-02 (Jan-08)	CA-PRSC-02-02 (June-08)	CA-PRSC-02-02 (Aug-08)	CA-PRSC-02-02 (Dec-08)	CA-PRSC-02-02 (Mar-09)	CA-PRSC-02-02 (June-09)	CA-PRSC-02-03 (Jan-08)	CA-PRSC-02-03 (June-08)	CA-PRSC-02-03 DUP (June-08)	CA-PRSC-02-03 (Aug-08)	CA-PRSC-02-03 (Dec-08)	CA-PRSC-02-03 (Mar-09)	CA-PRSC-02-03 (June-09)	CA-PRSC-03 (Jan-08)	CA-PRSC-03 (June-08)	CA-PRSC-03 (Aug-08)	CA-PRSC-03 (Dec-08)
Volatile Organic Compounds																				
1,1-Dichloroethane	75-34-3		5				0.4 J		1.1 J											
1,1-Dichloroethene	75-35-4	7	5																	
1,2-Dichloroethane	107-06-2	5	5			0.8 J														
1,2-Dichloroethylene (total)	540-59-0		5																	
Chloromethane	74-87-3		5							0.8 J										
cis-1,2-Dichloroethene	156-59-2		5																	
Isopropylbenzene	98-82-8		5	2 J		1	0.6 J					0.4 J	1							
Methyl tert-butyl ether	1634-04-4		50							0.7 J										
Trichloroethene	79-01-6	5	5																	
Vinyl Chloride	75-01-4	2																		
Benzene	71-43-2	5	5																	
Napthalene	91-20-3																			

Units are in µg/L (micrograms per liter)

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1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Wate
http://www.epa.gov/safewater/contaminants/index.html#primary

2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Su
Determination and Table 9D - Organic Chemicals - Principal Organic Contamina

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Methylene Chloride is excluded from the analytical table due to detections being

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GROUNDWATER ANALYTICAL RESULTS SUMMARY
SOUTHERN AREA
(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	CA-PRSC-03 (Mar-09)	CA-PRSC-03 DUP (Mar-09)	CA-PRSC-03 (June-09)	CA-PRSC-04 (Jan-08)	CA-PRSC-04 (June-08)	CA-PRSC-04 (Aug-08)	CA-PRSC-04 (Dec-08)	CA-PRSC-04 (Mar-09)	CA-PRSC-04 (June-09)
Volatile Organic Compounds												
1,1-Dichloroethane	75-34-3		5									
1,1-Dichloroethene	75-35-4	7	5									
1,2-Dichloroethane	107-06-2	5	5									
1,2-Dichloroethylene (total)	540-59-0		5									
Chloromethane	74-87-3		5									
cis-1,2-Dichloroethene	156-59-2		5									
Isopropylbenzene	98-82-8		5									
Methyl tert-butyl ether	1634-04-4		50									
Trichloroethene	79-01-6	5	5									
Vinyl Chloride	75-01-4	2										
Benzene	71-43-2	5	5									
Napthalene	91-20-3											

Units are in µg/L (micrograms per liter)

CAS-Chemical Abstracts Service

MCL- Maximum contaminant level

NYSDOH-New York State Department of Health

Blank cells - No criteria or not detected

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1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Wate
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Methylene Chloride is excluded from the analytical table due to detections being

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0259

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	3.1	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0259

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	3.4	J
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	3.6	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	1.8	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	12	
156-59-2	cis-1,2-Dichloroethene	1.3	J
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 9070102-MS1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 9070102-MS159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	100	
95-47-6	o-Xylene (part of total)	51	
75-71-8	Dichlorodifluoromethane	56	
74-87-3	Chloromethane	73	
75-01-4	Vinyl Chloride	73	
75-35-4	1,1-Dichloroethene	53	
75-15-0	Carbon disulfide	54	
76-13-1	1,1,2-trichloro-1,2,2-triflu	47	
67-64-1	Acetone	160	
75-09-2	Methylene Chloride	51	
156-60-5	trans-1,2-Dichloroethene	52	
1634-04-4	Methyl-tert-butyl ether	54	
75-34-3	1,1-Dichloroethane	69	
156-59-2	cis-1,2-Dichloroethene	53	
67-66-3	Chloroform	57	
71-55-6	1,1,1-Trichloroethane	54	
56-23-5	Carbon Tetrachloride	51	
563-58-6	1,1-dichloropropene	52	
71-43-2	Benzene	54	
107-06-2	1,2-Dichloroethane	62	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	59	
75-27-4	Bromodichloromethane	58	
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	55	
108-10-1	4-Methyl-2-pentanone	160	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	58	
79-00-5	1,1,2-Trichloroethane	54	
127-18-4	Tetrachloroethene	42	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	51	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201MS

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 9070102-MS1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 9070102-MS159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	50	
100-42-5	Styrene	52	
75-25-2	Bromoform	45	
98-82-8	Isopropyl Benzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	57	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-Chloropropane	42	
120-82-1	1,2,4-Trichlorobenzene	43	
91-20-3	Naphthalene	46	
1330-20-7	Xylene (total)	150	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201MSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 9070102-MSD1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 9070102-MSD159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	96	
95-47-6	o-Xylene (part of total)	49	
75-71-8	Dichlorodifluoromethane	57	
74-87-3	Chloromethane	76	
75-01-4	Vinyl Chloride	73	
75-35-4	1,1-Dichloroethene	51	
75-15-0	Carbon disulfide	52	
76-13-1	1,1,2-trichloro-1,2,2-triflu	45	
67-64-1	Acetone	160	
75-09-2	Methylene Chloride	51	
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl-tert-butyl ether	54	
75-34-3	1,1-Dichloroethane	67	
156-59-2	cis-1,2-Dichloroethene	52	
67-66-3	Chloroform	56	
71-55-6	1,1,1-Trichloroethane	51	
56-23-5	Carbon Tetrachloride	49	
563-58-6	1,1-dichloropropene	50	
71-43-2	Benzene	52	
107-06-2	1,2-Dichloroethane	61	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	58	
75-27-4	Bromodichloromethane	56	
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	55	
108-10-1	4-Methyl-2-pentanone	160	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	57	
79-00-5	1,1,2-Trichloroethane	53	
127-18-4	Tetrachloroethene	41	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	49	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201MSD

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 9070102-MSD1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 9070102-MSD159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	48	
100-42-5	Styrene	49	
75-25-2	Bromoform	46	
98-82-8	Isopropyl Benzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	55	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	45	
95-50-1	1,2-Dichlorobenzene	46	
96-12-8	1,2-Dibromo-3-Chloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	44	
91-20-3	Naphthalene	48	
1330-20-7	Xylene (total)	150	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0202

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0359

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	2.2	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.1	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0202

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0359

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0203

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0459

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	2.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0203

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0459

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0559

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	2.3	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0559

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0659

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	1.1	J
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	2.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0659

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**AUGUST 18, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0906202**		
SAMPLES:	8 / Aqueous / VOC		

CA-PRSC-01	CA-PRSC-0201	CA-PRSC-0202
CA-PRSC-0203	CA-PRSC-03	CA-PRSC-04
CA-PRSC-DUP	TRIP BLANK	

Overview

The sample set for NWIRP Calverton, SDG 0906202 consists of eight (8) aqueous environmental samples including one (1) trip blank and one (1) field duplicate. The aqueous samples were analyzed for volatile organic compounds (VOC). The one field duplicate pair associated with this sample data group (SDG) was CA-PRSC-DUP / CA-PRSC-0201.

The samples were collected by Tetra Tech on June 24, 2009 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Hold times
* • Initial/continuing calibrations
• Laboratory Method Blank Results
* • Field Duplicate Analysis
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The following compound was detected in the associated method blank at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Methylene chloride	2.2	22.0

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant volatile compound was established to evaluate laboratory contamination for the aforementioned compound. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results less than the action level were

qualified as non-detected, (U), as a result of laboratory blank contamination with the exception of the TRIP BLANK which is not qualified due to laboratory contamination.

The continuing calibration %D was greater than the 20% quality control limit and < 90% for 4-methyl-2-pentanone, tetrachloroethene, and 1,2,4-trichlorobenzene for instrument 5972HP59 on 07/01/09 @ 10:07 affecting all samples. All sample results for 4-methyl-2-pentanone, tetrachloroethene, and 1,2,4-trichlorobenzene were non-detected and were qualified estimated, (UJ).

Instrument 5972HP59 was not calibrated for 2-chloroethyl vinyl ether, and the continuing calibration, LSC and MS/MSD results for 2-chloroethyl vinyl ether were outside the quality control limits. The samples were acid preserved (except for sample CA-PRSC-04) and 2-chloroethyl vinyl ether cannot be detected in acid preserved samples. All sample results for 2-chloroethyl vinyl ether were non-detected and the sample results were qualified rejected, (UR).

Additional Comments

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride was detected in the method blank resulting in sample data qualification. Continuing calibration %D results greater than the quality control limit resulted in data qualification. Initial and continuing calibration quality control limit non-compliances resulted in the rejection of 2-chloroethyl vinyl ether results for all samples.

Other Factors Affecting Data Quality: The samples were preserved with acid which prevents detection of 2-chloroethyl vinyl ether.

The data for these analyses were reviewed with reference to the Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – Positive result is considered estimated, "J", as a result of technical non-compliances.

UJ – Non-detected result is considered estimated, "UJ", as a result of technical non-compliances.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01			CA-PRSC-0201			CA-PRSC-0202			CA-PRSC-0203		
SDG: 0906202	LAB_ID	0906202-02			0906202-01			0906202-03			0906202-04		
FRACTION: OV	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		12			1.1	J	P	5	U	
1,1-DICHLOROETHENE		5	U		3.6	J	P	5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	5	UR	C	5	UR	C
4-METHYL-2-PENTANONE		13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		1.3	J	P	5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		3.1	U	A	1.8	U	A	2.2	U	A	2.5	U	A
M-XYLENE		10	U		10	U		10	U		10	U	
NAPHTHALENE		3.4	J	P	5	U		5	U		5	U	

PROJ_NO: 01655 SDG: 0906202 FRACTION: OV MEDIA: WATER	NSAMPLE	CA-PRSC-03			CA-PRSC-04			CA-PRSC-DUP			TRIP BLANK		
	LAB_ID	0906202-05			0906202-06			0906202-08			0906202-07		
	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							CA-PRSC-0201					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		12			5	U	
1,1-DICHLOROETHENE		5	U		5	U		3.5	J	P	5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	5	UR	C	5	UR	C
4-METHYL-2-PENTANONE		13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		1.1	J	P	5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		1.3	J	P	5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		2.3	U	A	2.5	U	A	1.8	U	A	2.6	J	P
M-XYLENE		10	U		10	U		10	U		10	U	
NAPHTHALENE		5	U		5	U		5	U		2.9	J	P

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01			CA-PRSC-0201			CA-PRSC-0202			CA-PRSC-0203		
SDG: 0906202	LAB_ID	0906202-02			0906202-01			0906202-03			0906202-04		
FRACTION: OV	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655 SDG: 0906202 FRACTION: OV MEDIA: WATER	NSAMPLE	CA-PRSC-03			CA-PRSC-04			CA-PRSC-DUP			TRIP BLANK		
	LAB_ID	0906202-05			0906202-06			0906202-08			0906202-07		
	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							CA-PRSC-0201					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	