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ICF international / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Task Order Manager (TOM) RF
Quality Assurance (QA) Program, MTS-3

FROM: Doug Lindelof, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041
Technical Direction Form No.: 00105053

DATE: May 11, 2007

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Omega Chem OU2
Site Account No.:	09 BC LA02
CERCLIS ID NO.:	CAD042245001
Case No.:	36072
SDG No.:	Y34K9
Laboratory:	DataChem Laboratories, Inc. (DATAC)
Analysis:	Trace Volatiles
Samples:	20 Groundwater Samples (see Case Summary)
Collection Date:	March 12 through 15, 2007
Reviewer:	April Martinez, ESAT/Laboratory Data Consultants

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Carol Beard, CLP PO USEPA Region 8
Steve Remaley, CLP PO USEPA Region 9

CLP PO: [X] Attention [X] Action

SAMPLING ISSUES: [X] Yes [ ] No

00105053-7878/36072/Y34K9-TV

Data Validation Report

Case No.: 36072
SDG No.: Y34K9
Site: Omega Chem OU2
Laboratory: DataChem Laboratories, Inc.
Reviewer: April Martinez, ESAT/LDC
Date: May 11, 2007

I. CASE SUMMARY

Sample Information

Samples:	Y34K9 through Y34M8
Concentration and Matrix:	Low Concentration Water
Analysis:	Trace Volatiles
SOW:	SOM01.1
Collection Date:	March 12 through 15, 2007
Sample Receipt Date:	March 13 through 16, 2007
Extraction Date:	Not Applicable
Analysis Date:	March 14, 15, 17, 18, and 19, 2007

Field QC

Field Blanks (FB):	Y34M3
Equipment Blanks (EB):	Y34K9
Trip Blank (TB):	Y34L7
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y34L5 and Y34L6

Laboratory QC

Method Blanks & Associated Samples:

VBLKT1:	Y34L5DL, Y34L6DL, Y34L2, Y34L5, Y34L6
VBLKT2:	Y34M3 through Y34M7, Y34L0, Y34L1, Y34M2, Y34L8DL, Y34L9DL, Y34M0DL, Y34L4DL, Y34L8 through Y34M0
VBLKT3:	Y34M8, Y34L7, Y34M1, Y34L3, Y34M8DL, Y34K9, Y34L4, Y34L4MS, Y34L4MSD; storage blank VHBLKT1

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review
2:	Calibration Summary

CLP PO Action

Nondetected results for 1,4-dioxane in samples Y34K9 through Y34L5 and Y34L7 through Y34M8, all method blanks, and storage blank VHBLKT1 are qualified as rejected (R) due to very low response factors (<0.01) in initial and continuing calibrations (see Comment A).

CLP PO Attention

1. Results for some analytes are qualified as estimated (J) due to calibration problems (see Comment C).

2. Results for some analytes are qualified as estimated (J) due to deuterated monitoring compound (DMC) recovery problems (see Comment D).

3. Detected results for 1,1-dichloroethene and trichloroethene in sample Y34L2 are qualified as estimated (J) due to concentrations exceeding calibration range (see Comment E).

Sampling Issues

1. The laboratory indicated on the sample log-in sheet that the temperature indicator bottle was absent from the cooler containing samples Y34K9 through Y34L8 (see p. 853 in data package). The SDG Narrative did not indicate how the cooler temperature was recorded.

2. The SDG Narrative (attached, p.1 in data package) indicated that the pH of samples Y34L2, Y34M1, and Y34M2 were 5, 4, and 3, respectively.

3. The sampler signature is missing on the traffic report & chain of custody record (TR/COC) for sample Y34L8 (see attached TR/COC, p. 9 in data package).

4. Equipment blank, field duplicate, and trip blank were not submitted "blind" to the laboratory since "EB", "FD", and "TB", respectively, were used as part of station locations on TR/COCs (see p. 8 through 10 in data package).

Additional Comments

Other than laboratory artifacts (approximate retention times of 15.5, 19.4, 22.8, and 25.4 minutes), tentatively identified compounds (TICs) were found in samples Y34L1 through Y34L6, Y34L8 through Y34M0, Y34M2, Y35M5, and Y34M8 (see attached Form 1Js).

The laboratory performed manual integrations on calibrations due to incorrect auto integration. Manual integrations were reviewed and found to be satisfactory and in compliance with proper integration techniques.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services Volatile and Semivolatile Data Packages*;

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration,* SOM01:1, May 2005; and

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, January 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Holding Time/Preservation	Yes	
2.	GC/MS Tune/GC Performance	Yes	
3.	Initial Calibration	No	A, C
4.	Continuing Calibration	No	A, C
5.	Laboratory Blanks	Yes	
6.	Field Blanks	Yes	
7.	Deuterated Monitoring Compounds	No	D
8.	Matrix Spike/Matrix Spike Duplicates	Yes	
9.	Laboratory Control Samples/Duplicates	N/A	
10.	Internal Standards	Yes	
11.	Compound Identification	Yes	
12.	Compound Quantitation	No	B, E, F, G
13.	System Performance	Yes	
14.	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Nondetected results for the following analyte are qualified as rejected due to very low relative response factors (RRFs) in initial and continuing calibrations and are flagged "R" in Table 1A.

- 1,4-Dioxane in samples Y34K9 through Y34L5 and Y34L7 through Y34M8, all method blanks, and storage blank VHBLKT1

RRFs below 0.01 were reported for 1,4-dioxane in the initial and continuing calibrations (see Table 2). Since results are nondetected, false negatives may exist.

DMC 1,4-dioxane-d8 also had RRFs below 0.01 in the initial and continuing calibrations (see Table 2).

The RRF evaluates instrument sensitivity and is used in the quantitation of target analytes.

B. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All detected results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

C. Results for the following analytes are qualified as estimated due to low RRFs in initial and continuing calibrations and are flagged "J" in Table 1A.

- 1,4-Dioxane in sample Y34L6

- Acetone, methyl acetate, and 2-butanone in all samples, all method blanks, and storage blank VHBLKT1

RRFs below 0.01 were reported for 1,4-dioxane in initial and continuing calibrations (see Table 2). The detected result for 1,4-dioxane in sample Y34L6 may be biased low.

Average RRFs below 0.05 were reported for acetone and 2-butanone in initial calibrations (see Table 2). RRFs were below the 0.05 validation criterion for acetone, methyl acetate, and 2-butanone in continuing calibrations (see Table 2). Since results are nondetected, false negatives may exist.

DMCs 2-butanone-d5 and 2-hexanone-d5 also had RRFs below the 0.05 validation criterion in continuing calibrations (see Table 2). Quantitation of the analytes associated with these DMCs may have been affected by low RRFs (see attached Table 9 from the Functional Guidelines).

D. Results for the following analytes are qualified as estimated due to DMC recoveries outside QC limits and are flagged "J" in Table 1A.

{1,1-Dichloroethene-d2}
- trans-1,2-Dichloroethene and cis-1,2-dichloroethene in samples Y34L5, Y34L6, Y34L8, Y34L9, Y34M0, and Y34M8

{1,2-Dichloropropane-d6}
- Cyclohexane, methylcyclohexane, 1,2-dichloropropane, and bromodichloromethane in samples Y34L0 and Y34M2

{1,4-Dioxane-d8}
- 1,4-Dioxane in sample Y34L6

{1,1,2,2-Tetrachloroethane-d2}
- 1,1,2,2-tetrachloroethane and 1,2-dibromo-3-chloropropane in sample Y34L7

DMC recoveries outside QC limits are shown below.

Sample	DMC	% Recovery	QC Limits
Y34M4	Vinyl chloride-d3	132	65-131
Y34L2	1,1-Dichloroethene-d2	176	55-104
Y34L5	1,1-Dichloroethene-d2	487	55-104
Y34L5DL	1,1-Dichloroethene-d2	108	55-104
Y34L6	1,1-Dichloroethene-d2	435	55-104
Y34L8	1,1-Dichloroethene-d2	210	55-104
Y34L9	1,1-Dichloroethene-d2	159	55-104
Y34M0	1,1-Dichloroethene-d2	165	55-104
Y34M8	1,1-Dichloroethene-d2	300	55-104
Y34L0	1,2-Dichloropropane-d6	72	79-124
Y34M2	1,2-Dichloropropane-d6	72	79-124
Y34M8DL	1,2-Dichloropropane-d6	78	79-124
Y34L3	1,4-Dioxane-d8	169	50-150
Y34L6	1,4-Dioxane-d8	151	50-150
Y34L9	1,4-Dioxane-d8	182	50-150
Y34M0	1,4-Dioxane-d8	160	50-150
Y34M1	1,4-Dioxane-d8	152	50-150
Y34M8	1,4-Dioxane-d8	174	50-150
Y34L4MSD	1,4-Dioxane-d8	171	50-150
Y34L7	1,1,2,2-Tetrachloroethane-d2	68	73-125

Detected results for affected analytes where DMC recoveries fell below QC limits may be biased low; where results are nondetected, false negatives may exist. Detected results for affected analytes where DMC recoveries exceeded QC limits may be biased high. For DMC recoveries that exceeded QC limits, only detected results for associated analytes are qualified. The recovery for DMC vinyl chloride-d3 in sample Y34M4 exceeded QC limit but vinyl chloride result was not qualified because it was a nondetect. The samples were not reanalyzed.

E. Detected results for the following analytes are qualified as estimated due to concentrations exceeding calibration range and are flagged "J" in Table 1A.

- 1,1-Dichloroethene and trichloroethene in sample Y34L2

Concentrations of 1,1-dichloroethene and trichloroethene in the undiluted analysis of sample Y34L2 were 21 ug/L and 23 ug/L, respectively. These values exceed the 0.5-20 ug/L calibration range. The laboratory did not reanalyzed sample Y34L2.

Results reported in Table 1A for these analytes are from the undiluted analysis. Their concentrations are considered to be qualitatively acceptable but quantitatively questionable and should be considered as the minimum concentrations at which these analytes are present in the sample.

F. Sample Y34L4 was reanalyzed at a 50-fold dilution due to high levels of cyclohexane and methylcyclohexane that exceeded the calibration range. Results for cyclohexane and methylcyclohexane in sample Y34L4 are reported from the diluted

analysis in Table 1A; results for other analytes are reported from 5-fold diluted analysis.

Samples Y34L5 and Y34L6 were reanalyzed at 20-fold dilutions due to high levels of 1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene that exceeded the calibration range. Results for 1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene in these samples are reported from the diluted analyses in Table 1A; results for other analytes are reported from the 2-fold diluted analyses.

Samples Y34L8 and Y34M8 were reanalyzed at 5-fold and 10-fold dilutions, respectively, due to high levels of 1,1-dichloroethene, trichloroethene, and tetrachloroethene that exceeded the calibration range. Results for 1,1-dichloroethene, trichloroethene, and tetrachloroethene in these samples are reported from the diluted analyses in Table 1A; results for other analytes are reported from the undiluted analyses.

Sample Y34L9 was reanalyzed at a 5-fold dilution due to high levels of trichloroethene and tetrachloroethene that exceeded the calibration range. Results for trichloroethene and tetrachloroethene in sample Y34L9 are reported from the diluted analysis in Table 1A; results for other analytes are reported from the undiluted analysis.

Sample Y34M0 was reanalyzed at a 5-fold dilution due to high levels of 1,1,-dichloroethne, 1,1,2-trichloro-1,2,2-trifluoroethane, trichloroethene, and tetrachloroethene that exceeded the calibration range. Results for 1,1,-dichloroethne, 1,1,2-trichloro-1,2,2-trifluoroethane, trichloroethene, and tetrachloroethene in sample Y34M0 are reported from the diluted analysis in Table 1A; results for other analytes are reported from the undiluted analysis.

G. Samples Y34L4, Y34L5, and Y34L6 were analyzed at 5-, 2-, and 2-fold dilutions, respectively, due high levels of target analytes. The CRQLs listed for these samples in Table 1A have been multiplied by the dilution factor.

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HPW1A (Y34K9)-EB			HPW1A (Y34L0)			HPW1B (Y34L1)			HPW2A (Y34L2)			HPW2B (Y34L3)			HP276A (Y34L4)		
Sample ID :	Y34K9		EB	Y34L0			Y34L1			Y34L2			Y34L3			Y34L4		
Collection Date :	3/12/2007			3/12/2007			3/12/2007			3/12/2007			3/12/2007			3/13/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			5.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Chloromethane	0.50U			0.50U			0.22L	J	B	0.50U			0.50U			2.5U		
Vinyl chloride	0.50U			0.50U			0.50U			0.15L	J	B	0.50U			0.84L	J	B
Bromomethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Trichlorofluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,1-Dichloroethene	0.50U			1.1			0.50U			21	J	E	0.62			12		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Acetone	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	25U	J	C
Carbon disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Methyl acetate	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	2.5U	J	C
Methylene chloride	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
trans-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50U			2.8		
Methyl tert-butyl ether	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,1-Dichloroethane	0.50U			0.50U			0.50U			1.4			0.50U			3.9		
cis-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50U			49		
2-Butanone	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	25U	J	C
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Chloroform	0.50U			0.50U			0.13L	J	B	0.27L	J	B	0.50U			2.5U		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Cyclohexane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			600		F
Carbon tetrachloride	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Benzene	0.50U			0.50U			0.50U			0.50U			0.29L	J	B	1.9L	J	B
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			3.1		
1,4-Dioxane	20U	R	A	20U	R	A	20U	R	A	20U	R	A	20U	R	A	100U	R	A
Trichloroethene	0.50U			9.5			0.59			23	J	E	0.66			2.5U		

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HPW1A (Y34K9)-EB			HPW1A (Y34L0)			HPW1B (Y34L1)			HPW2A (Y34L2)			HPW2B (Y34L3)			HP276A (Y34L4)		
Sample ID :	Y34K9		EB	Y34L0			Y34L1			Y34L2			Y34L3			Y34L4		
Collection Date :	3/12/2007			3/12/2007			3/12/2007			3/12/2007			3/12/2007			3/13/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			5.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			280		F
1,2-Dichloropropane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			2.5U		
Bromodichloromethane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			2.5U		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
4-Methyl-2-Pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			25U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.26L	J	B	2.5U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,1,2-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Tetrachloroethene	0.50U			0.50			0.50U			1.6			0.35L	J	B	2.5U		
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			25U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			46		
o-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
m,p-Xylene	0.50U			0.50U			0.50U			0.50U			0.14L	J	B	2.5U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Bromoform	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			82		
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,2-Dibromo-3-chloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			2.5U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HP277A (Y34L5)			HP277A (Y34L6) - FD			TB (Y34L7)			HP28A (Y34L8)			HP279A (Y34L9)			HP279B (Y34M0)		
Sample ID :	Y34L5		D1	Y34L6		D1	Y34L7		TB	Y34L8			Y34L9			Y34M0		
Collection Date :	3/12/2007			3/13/2007			3/13/2007			3/13/2007			3/14/2007			3/14/2007		
Dilution Factor :	2.0			2.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.30L	J	B
Chloromethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Vinyl chloride	0.46L	J	B	0.30L	J	B	0.50U			11			11			6.6		
Bromomethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Chloroethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	1.3			1.2			0.50U			0.64			5.0			13		
1,1-Dichloroethene	150		F	120		F	0.50U			27		F	20			22		F
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2			0.59L	J	B	0.50U			2.6			3.0			28		F
Acetone	10U	J	C	10U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Carbon disulfide	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Methyl acetate	1.0U	J	C	1.0U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C
Methylene chloride	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
trans-1,2-Dichloroethene	0.93L	J	BD	0.53L	J	BD	0.50U			6.4	J	D	2.2	J	D	0.59	J	D
Methyl tert-butyl ether	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	17			18			0.50U			2.0			3.4			3.5		
cis-1,2-Dichloroethene	75	J	DF	72	J	DF	0.50U			13	J	D	17	J	D	12	J	D
2-Butanone	10U	J	C	10U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Bromochloromethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Chloroform	1.2			1.2			0.50U			0.38L	J	B	0.36L	J	B	0.92		
1,1,1-Trichloroethane	0.56L	J	B	0.58L	J	B	0.50U			0.50U			0.50U			0.50U		
Cyclohexane	1.0U			1.0U			0.50U			1.8			1.9			2.4		
Carbon tetrachloride	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Benzene	1.0U			1.0U			0.50U			0.39L	J	B	0.60			0.33L	J	B
1,2-Dichloroethane	8.5			8.9			0.50U			1.1			0.50U			0.50U		
1,4-Dioxane	40U	R	A	40	J	CD	20U	R	A	20U	R	A	20U	R	A	20U	R	A
Trichloroethene	100		F	91		F	0.50U			74		F	68		F	79		F

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HP277A (Y34L5)			HP277A (Y34L6) - FD			TB (Y34L7)			HP28A (Y34L8)			HP279A (Y34L9)			HP279B (Y34M0)		
Sample ID :	Y34L5		D1	Y34L6		D1	Y34L7		TB	Y34L8			Y34L9			Y34M0		
Collection Date :	3/12/2007			3/13/2007			3/13/2007			3/13/2007			3/14/2007			3/14/2007		
Dilution Factor :	2.0			2.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
4-Methyl-2-Pentanone	10U			10U			5.0U			5.0U			5.0U			5.0U		
Toluene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	260		F	210		F	0.50U			51		F	55		F	88		F
2-Hexanone	10U			10U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Chlorobenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
o-Xylene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
m,p-Xylene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Styrene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Bromoform	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
Isopropylbenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	1.0U			1.0U			0.50U	J	D	0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	1.0U			1.0U			0.50U	J	D	0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	1.0U			1.0U			0.50U			0.50U			0.50U			0.50U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HP2910A (Y34M1)			HP2911A (Y34M2)			HP2911A (Y34M3)-AB			HP2912A (Y34M4)			HP2912B (Y34M5)			HP2913A (Y34M6)		
Sample ID :	Y34M1			Y34M2			Y34M3 FB			Y34M4			Y34M5			Y34M6		
Collection Date :	3/14/2007			3/14/2007			3/14/2007			3/15/2007			3/15/2007			3/15/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U			0.50U			0.50U			0.15L	J	B	0.22L	J	B	0.50U		
Chloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Vinyl chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromomethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethene	0.50U			0.15L	J	B	0.50U			0.24L	J	B	0.19L	J	B	2.9		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Acetone	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Carbon disulfide	0.50U			0.14L	J	B	0.50U			0.50U			0.50U			0.50U		
Methyl acetate	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C
Methylene chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50U			0.15L	J	B
Methyl tert-butyl ether	0.50U			0.50U			0.50U			0.50U			0.50U			0.96		
1,1-Dichloroethane	0.50U			0.50U			0.50U			0.21L	J	B	0.22L	J	B	0.57		
cis-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.28L	J	B	0.49L	J	B	7.4		
2-Butanone	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	0.50U			0.38L	J	B	0.50U			0.15L	J	B	0.50U			0.54		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			0.50U		
Carbon tetrachloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Benzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			1.9		
1,4-Dioxane	20U	R	A	20U	R	A	20U	R	A	20U	R	A	20U	R	A	20U	R	A
Trichloroethene	0.50U			2.0			0.50U			19			18			17		

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HP2910A (Y34M1)			HP2911A (Y34M2)			HP2911A (Y34M3)-AB			HP2912A (Y34M4)			HP2912B (Y34M5)			HP2913A (Y34M6)		
Sample ID :	Y34M1			Y34M2			Y34M3		FB	Y34M4			Y34M5			Y34M6		
Collection Date :	3/14/2007			3/14/2007			3/14/2007			3/15/2007			3/15/2007			3/15/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			0.17L	J	B
Bromodichloromethane	0.50U			0.50U	J	D	0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
4-Methyl-2-Pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	0.50U			0.51			0.50U			3.6			4.6			20		
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
o-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
m,p-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HP2914A (Y34M7)			HP2914B (Y34M8)			Method Blank			Method Blank			Method Blank			Storage Blank		
Sample ID :	Y34M7			Y34M8			VBLKT1			VBLKT2			VBLKT3			VHBLKT1		
Collection Date :	3/15/2007			3/15/2007														
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U			0.11L	J	B	0.50U			0.50U			0.50U			0.50U		
Chloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Vinyl chloride	0.50U			0.37L	J	B	0.50U			0.50U			0.50U			0.50U		
Bromomethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	0.50U			0.31L	J	B	0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethene	1.4			44		F	0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.35L	J	B	0.50U			0.50U			0.50U			0.50U		
Acetone	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Carbon disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl acetate	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C
Methylene chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,2-Dichloroethene	0.50U			1.7	J	D	0.50U			0.50U			0.50U			0.50U		
Methyl tert-butyl ether	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	0.34L	J	B	3.4			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	0.82			7.0	J	D	0.50U			0.50U			0.50U			0.50U		
2-Butanone	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	0.67			0.45L	J	B	0.50U			0.50U			0.50U			0.50U		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.29L	J	B	0.50U			0.50U			0.50U			0.50U		
Carbon tetrachloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Benzene	0.50U			0.43L	J	B	0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	1.1			2.1			0.50U			0.50U			0.50U			0.50U		
1,4-Dioxane	20U	R	A	20U	R	A	20U	R	A	20U	R	A	20U	R	A	20U	R	A
Trichloroethene	7.7			82		F	0.50U			0.50U			0.50U			0.50U		

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	HP2914A (Y34M7)			HP2914B (Y34M8)			Method Blank			Method Blank			Method Blank			Storage Blank		
Sample ID :	Y34M7			Y34M8			VBLKT1			VBLKT2			VBLKT3			VHBLKT1		
Collection Date :	3/15/2007			3/15/2007														
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.21L	J	B	0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
4-Methyl-2-Pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	3.5			110		F	0.50U			0.50U			0.50U			0.50U		
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
o-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
m,p-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :																		
Sample ID :	CRQL																	
Collection Date :																		
Dilution Factor :																		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50																	
Chloromethane	0.50																	
Vinyl chloride	0.50																	
Bromomethane	0.50																	
Chloroethane	0.50																	
Trichlorofluoromethane	0.50																	
1,1-Dichloroethene	0.50																	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50																	
Acetone	5.0																	
Carbon disulfide	0.50																	
Methyl acetate	0.50																	
Methylene chloride	0.50																	
trans-1,2-Dichloroethene	0.50																	
Methyl tert-butyl ether	0.50																	
1,1-Dichloroethane	0.50																	
cis-1,2-Dichloroethene	0.50																	
2-Butanone	5.0																	
Bromochloromethane	0.50																	
Chloroform	0.50																	
1,1,1-Trichloroethane	0.50																	
Cyclohexane	0.50																	
Carbon tetrachloride	0.50																	
Benzene	0.50																	
1,2-Dichloroethane	0.50																	
1,4-Dioxane	20																	
Trichloroethene	0.50																	

ANALYTICAL RESULTS
Table 1A

Case No. : 36072 SDG No. : Y34K9
Site : Omega Chem OU2
Lab : DataChem Laboratories, Inc.
Reviewer : April Martinez, ESAT/LDC
Date : 05/11/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :																		
Sample ID :	CRQL																	
Collection Date :																		
Dilution Factor :																		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50																	
1,2-Dichloropropane	0.50																	
Bromodichloromethane	0.50																	
cis-1,3-Dichloropropene	0.50																	
4-Methyl-2-Pentanone	5.0																	
Toluene	0.50																	
trans-1,3-Dichloropropene	0.50																	
1,1,2-Trichloroethane	0.50																	
Tetrachloroethene	0.50																	
2-Hexanone	5.0																	
Dibromochloromethane	0.50																	
1,2-Dibromoethane	0.50																	
Chlorobenzene	0.50																	
Ethylbenzene	0.50																	
o-Xylene	0.50																	
m,p-Xylene	0.50																	
Styrene	0.50																	
Bromoform	0.50																	
Isopropylbenzene	0.50																	
1,1,2,2-Tetrachloroethane	0.50																	
1,3-Dichlorobenzene	0.50																	
1,4-Dichlorobenzene	0.50																	
1,2-Dichlorobenzene	0.50																	
1,2-Dibromo-3-chloropropane	0.50																	
1,2,4-Trichlorobenzene	0.50																	
1,2,3-Trichlorobenzene	0.50																	

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," January 2005.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Table 2
Calibration Summary

Case No.: 36072
SDG No.: Y34K9
Site: Omega Chem OU2
Laboratory: DataChem Laboratories, Inc.
Reviewer: April Martinez, ESAT/LDC
Date: May 11, 2007

RELATIVE RESPONSE FACTORS

	RRF	RRF	RRF	RRF
Analysis date:	1/9/07	3/14/07	3/15/07	3/17/07
Analysis time:	10:38-	15:45	03:01	15:34
GC/MS I.D.:	5972-P	5972-P	5972-P	5972-P
Analyte	Init.	Cont.	Cont.	Cont.
Acetone .	0.017	0.017	0.015	0.016
Methyl acetate	------	0.042	0.039	0.044
2-Butanone	0.031	0.030	0.031	0.027
1,4-Dioxane	0.0007	0.0007	0.0009	0.0007
2-Butanone	0.032	0.030	0.033	0.027
2-Hexanone-d5	0.038	0.037	0.039	0.034
1,4-Dioxane-d8	0.0007	0.0007	0.0009	0.0007

	RRF	RRF	RRF
Analysis date:	3/18/07	3/18/07	3/19/07
Analysis time:	02:57	14:47	02:10
GC/MS I.D.:	5972-P	5972-P	5972-P
Analyte	Cont.	Cont.	Cont.
Acetone	0.014	0.017	0.014
Methyl acetate	0.040	0.043	0.041
2-Butanone	0.029	0.032	0.029
1,4-Dioxane	0.0009	0.0009	0.0009
2-Butanone	0.031	0.032	0.029
2-Hexanone-d5	0.036	0.037	0.035
1,4-Dioxane-d8	0.0009	0.0009	0.0008

ASSOCIATED SAMPLES AND METHOD BLANKS

Initial 01/9/07: All samples, method blanks, and storage blank VHBLKT1
Cont., 03/14/07 (15:45): Y34L5DL, Y34L6DL, Y34L2, Y34L5, Y34L6, and VBLKT1
Cont., 03/15/07 (03:01): Y34L5DL, Y34L6DL, Y34L2, Y34L5, Y34L6, and VBLKT1

Cont., 03/17/07 (15:34): Y34M3 through Y34M7, Y34L0, Y34L1, Y34M2, Y34L8DL, Y34L9DL, Y34M0DL, Y34L4DL, Y34L8 through Y34M0, and VBLKT2

Cont., 03/18/07 (02:57): Y34M3 through Y34M7, Y34L0, Y34L1, Y34M2, Y34L8DL, Y34L9DL, Y34M0DL, Y34L4DL, Y34L8 through Y34M0, and VBLKT2

Cont., 03/18/07 (14:47): Y34M8, Y34L7, Y34M1, Y34L3, Y34M8DL, Y34K9, Y34L4, Y34L4MS, Y34L4MSD; storage blank VHBLKT1; and VBLKT3

Cont., 03/19/07 (02:10): Y34M8, Y34L7, Y34M1, Y34L3, Y34M8DL, Y34K9, Y34L4, Y34L4MS, Y34L4MSD; storage blank VHBLKT1; and VBLKT3.

DATA CHEM LABORATORIES, INC.

SDG Narrative
Trace Volatiles

Contract: EPW05026
Case: 36072
SDG: Y34K9

Laboratory Name: Datachem Laboratories

Sample Number	DCL Sample ID	pH	Dilution
Y34K9	7073001001	1	
Y34L0	7073001002	1	
Y34L1	7073001003	1	
Y34L2	7073001004	5	
Y34L3	7073001005	1	
Y34L4	7073001006	1	1:5
Y34L4DL	7073001006DL	1	1:50
Y34L4MS	7073001007	1	1:5
Y34L4MSD	7073001008	1	1:5
Y34L5	7073001009	1	1:2
Y34L5DL	7073001009DL	1	1:20
Y34L6	7073001010	1	1:2
Y34L6DL	7073001010DL	1	1:20
Y34L7	7073001011	1	
Y34L8	7073001012	1	
Y34L8DL	7073001012DL	1	1:5
Y34L9	7075005001	1	
Y34L9DL	7075005001DL	1	1:5
Y34M0	7075005002	1	
Y34M0DL	7075005002DL	1	1:5
Y34M1	7075005003	4	
Y34M2	7075005004	3	
Y34M3	7075005005	1	
Y34M4	7075005006	1	
Y34M5	7075005007	1	
Y34M6	7075005008	1	
Y34M7	7075005009	1	
Y34M8	7075005010	1	
Y34M8DL	7075005010DL	1	1:10

960 West LeVoy Drive Salt Lake City, UT 84123
800-356-9135 801-266-7700 Fax: 801-268-9992
www.datachem.com

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 36072
DAS No:
SDG No: N3449

L

Date Shipped:	3/13/2007
Carrier Name:	FedEx
Airbill:	848493830087
Shipped to:	Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1		Meredith Edwards	3/14/07 1105
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05024
Unit Price: N/A
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y34L8	Ground Water/ DAN JABLONSKI	M/G	VOA (7)	250 (HCL), 251 (HCL), 252 (HCL), 253 (HCL) (4)	HP28A (Y34L8)	S: 3/13/2007	15:25		

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: Y34L7	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles (SIM)	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 9-212610434-031307-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7073001003

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY84Y4L1

Level: (TRACE/LOW/MED) TRACE Date Received: 03/14/2007

% Moisture: not dec. _____ Date Analyzed: 03/17/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	115-07-1	Propene	3.03	5.2	JN
02	141-78-6	Ethyl Acetate	10.55	3.6	JN
03	104-76-7	1-Hexanol, 2-ethyl-	21.42	0.93	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	1.2	J

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7073001004

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY70Y4L2

Level: (TRACE/LOW/MED) TRACE Date Received: 03/14/2007

% Moisture: not dec. _____ Date Analyzed: 03/15/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	115-07-1	Propene	3.00	0.85	JN
02	141-78-6	Ethyl Acetate	10.50	0.54	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7073001005

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PZ08Y4L3

Level: (TRACE/LOW/MED) TRACE Date Received: 03/14/2007

% Moisture: not dec. _____ Date Analyzed: 03/18/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	141-78-6	Ethyl Acetate	10.59	3.7	JN
02		Unknown ~~Oxy Hydrocarbon~~	22.98	0.65	J
03					
04		SL, 5/8/07.			
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L4

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7073001006

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PZ11Y4L4

Level: (TRACE/LOW/MED) TRACE Date Received: 03/14/2007

% Moisture: not dec. _____ Date Analyzed: 03/18/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5026-76-6	1-Heptene, 6-methyl-	14.25	25	JN
02		C9 Hydrocarbon	17.82	8.7	J
03	103-65-1	Benzene, propyl-	19.48	120	JN
04	93-53-8	Benzeneacetaldehyde, .alpha.-methyl-	20.76	25	JN
05	611-15-4	Benzene, 1-ethenyl-2-methyl-	21.57	85	JN
06	527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	22.41	25	JN
07	824-90-8	1-Phenyl-1-butene	22.49	13	JN
08	767-58-8	Indan, 1-methyl-	22.62	42	JN
09	527-53-7	Benzene, 1,2,3,5-tetramethyl-	23.14	16	JN
10	767-58-8	Indan, 1-methyl-	23.70	8.4	JN
11	1005-64-7	Benzene, 1-butenyl-, (E)-	23.93	61	JN
12	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	24.18	17	JN
13	6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	24.46	14	JN
14	97664-18-1	Benzene, 1-methyl-4-(1-methyl-2-propenyl	24.59	18	JN
15	91-20-3	Naphthalene	24.79	51	JN
16	6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	25.58	8.4	JN
17	91-57-6	Naphthalene, 2-methyl-	26.37	27	JN
18	90-12-0	Naphthalene, 1-methyl-	26.65	11	JN
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	1200	J

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7073001009

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY72Y4L5

Level: (TRACE/LOW/MED) TRACE Date Received: 03/14/2007

% Moisture: not dec. _____ Date Analyzed: 03/15/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~7642-04-8~~	~~2-Octene, (Z)-~~ Cyclohexane, dimethyl	15.12	7.2	JN
02					
03		SL, 5/11/07			
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	170	J

[1] EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7073001010

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY73Y4L6

Level: (TRACE/LOW/MED) TRACE Date Received: 03/14/2007

% Moisture: not dec. _____ Date Analyzed: 03/15/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	150	J

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7073001012

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY92Y4L8

Level: (TRACE/LOW/MED) TRACE Date Received: 03/14/2007

% Moisture: not dec. _____ Date Analyzed: 03/18/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-43-4	Methane, dichlorofluoro-	6.01	1.9	JN
02	354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	6.92	2.4	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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14					
15					
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18					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	21	J

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34L9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7075005001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY93Y4L9

Level: (TRACE/LOW/MED) TRACE Date Received: 03/16/2007

% Moisture: not dec. _____ Date Analyzed: 03/18/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	75-43-4	Methane, dichlorofluoro-	6.01	3.6	JN
02	354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	6.91	5.7	JN
03	931-88-4	Cyclooctene	17.44	0.78	JN
04	104-76-7	1-Hexanol, 2-ethyl-	21.39	0.65	JN
05	~~124-19-6~~	~~Nonanal~~ Unknown	22.88	2.1	J~~N~~
06					
07		SG 9/11/07			
08					
09					
10					
11					
12					
13					
14					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	70	J

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34M0

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7075005002

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY94Y4M0

Level: (TRACE/LOW/MED) TRACE Date Received: 03/16/2007

% Moisture: not dec. _____ Date Analyzed: 03/18/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	6.92	6.3	JN
02	~~817-91-4~~	~~1-Heptanol, 4-methyl-~~ Cyclohexane, dimethyl-	15.12	2.2	JN
03					
04		SL, 5/11/07,			
05					
06					
07					
08					
09					
10					
11					
12					
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14					
15					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	18	J

[1] EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34M2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7075005004

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY87Y4M2

Level: (TRACE/LOW/MED) TRACE Date Received: 03/16/2007

% Moisture: not dec. _____ Date Analyzed: 03/17/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	115-07-1	Propene	3.00	0.88	JN
02		Unknown ~~Oxy Hydrocarbon~~	20.75	0.63	J
03	104-76-7	1-Hexanol, 2-ethyl-	21.41	2.2	JN
04		Unknown ~~Oxy Hydrocarbon~~	22.25	0.77	J
05	~~124-19-6~~	~~Nonanal~~ Unknown	22.90	2.2	J~~N~~
06		Unknown ~~Oxy Hydrocarbon~~	24.43	0.60	J
07	~~112-31-2~~	~~Decanal~~ Unknown	24.60	0.65	J~~N~~
08					
09		SL, 5/2/07.			
10					
11					
12					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34M5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7075005007

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PY80Y4M5

Level: (TRACE/LOW/MED) TRACE Date Received: 03/16/2007

% Moisture: not dec. _____ Date Analyzed: 03/17/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	104-76-7	1-Hexanol, 2-ethyl-	21.45	0.62	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y34M8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 36072 Mod. Ref No.: _____ SDG No.: Y34K9

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 7075005010

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: PZ04Y4M8

Level: (TRACE/LOW/MED) TRACE Date Received: 03/16/2007

% Moisture: not dec. _____ Date Analyzed: 03/18/2007

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	6.99	2.4	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	63	J

[1]EPA-designated Registry Number.

Table 9. Volatile Deuterated Monitoring Compounds and the Associated Target Compounds

Chloroethane-d5 (DMC)	1,2-Dichloropropane-d6 (DMC)	1,2-Dichlorobenzene-d4 (DMC)
Dichlorodifluoromethane	Cyclohexane	Chorobenzene
Chloromethane	Methylcyclohexane	1,3-Dichlorobenzene
Bromomethane	1,2-Dichloropropane	1,4-Dichlorobenzene
Chloroethane	Bromodichloromethane	1,2-Dichlorobenzene
Carbon Disulfide		1,2,4-Trichlorobenzene
		1,2,3-Trichlorobenzene

~~Bromoform-d~~ (DMC) 1,4-Dioxane-d8	trans-1,3-Dichloropropene-d4 (DMC)	Chloroform-d (DMC)
1,4-Dioxane ~~Dibromochloromethane~~	cis-1,3-Dichloropropene	1,1-Dichloroethane
~~1,2-Dibromoethane~~	trans-1,3-Dichloropropene	Bromochloromethane
~~Bromoform~~	1,1,2-Trichloroethane	Chloroform Dibromochloromethane Bromoform

2-Butanone-d5 (DMC)	1,1-Dichloroethene-d2 (DMC)	2-Hexanone-d5 (DMC)
Acetone	trans-1,2-Dichloroethene	4-Methyl-2-pentanone
2-Butanone	cis-1,2-Dichloroethene	2-Hexanone

Vinyl Chloride-d3 (DMC)	Benzene-d6 (DMC)	1,1,2,2-Tetrachloroethane-d2 (DMC)
Vinyl Chloride	Benzene	1,1,2,2,-Tetrachlororethane
		1,2-Dibromo-3-chloropropane

1,2-Dichloroethane-d4 (DMC)	Toulene-d8 (DMC)
Trichlorofluoromethane	Trichloroethene
1,1-Dichloroethene	Toluene
1,1,2-Trichloro-1,2,2-trifluoroethane	Tetrachloroethene
Methyl Acetate	Ethylbenzene
Methylene Chloride	Xylenes (total)
Methyl tert-Butyl Ether	Styrene
1,1,1-Trichloroethane	Isopropylbenzene
Carbon Tetrachloride 1,2-Dibromoethane 1,2-Dichloroethane	