ICF Consulting / 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: Lisa Hanusiak, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Rose Fong, ESAT Task Order Project Officer RF
Quality Assurance (QA) Program, PMD-3

FROM: Doug Lindelof, Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order: 009
Technical Direction No.: 00905027

DATE: April 7, 2005

SUBJECT: Review of Analytical Data, Tier 3

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

SITE:	Alhambra
SITE ACCOUNT NO.:	09 ES LA01
CERCLIS ID NO.:	CAD980818579
CASE NO.:	33865
SDG NO.:	Y1P13
LABORATORY:	Liberty Analytical Corp. (LIBRTY)
ANALYSIS:	Volatiles
SAMPLES:	20 Groundwater Samples
COLLECTION DATE:	February 14 through 17, 2005
REVIEWER:	Kendra Desantolo, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA Task Order Project Officer (TOPO) 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: Edward Messer, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9

CLP PO: [ ] FYI [X] Attention [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report

Case No.:	33865	SDG No.:	Y1P13
Site:	Alhambra		
Laboratory:	Liberty Analytical Corp. (LIBRTY)		
Reviewer:	Kendra DeSantolo, ESAT/LDC		
Date:	April 7, 2005		

I. Case Summary

SAMPLE INFORMATION:

Samples:	Y1P10 through Y1P29
Concentration and Matrix:	Low Concentration Water
Analysis:	Volatiles
SOW:	OLC03.2, Modification Reference No. 1125.0
Collection Date:	February 14 through 17, 2005
Sample Receipt Date:	February 15 through 18, 2005
Extraction Date:	Not Applicable
Analysis Date:	February 16, 18, and 22, 2005

FIELD QC:

Trip Blanks (TB):	Not Provided
Field Blanks (FB):	Y1P15
Equipment Blanks (EB):	Y1P26 and Y1P34 (in SDG Y1P30)
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y1P13 and Y1P14
Field Duplicates (D1):	Y1P22 and Y1P23

METHOD BLANKS AND ASSOCIATED SAMPLES:

VBLKOV:	Y1P13 and Y1P14
VBLKOW:	Y1P13DL, Y1P14DL, Y1P10 through Y1P12, and Y1P15 through Y1P28
VBLKRN:	Y1P29
VBLKRQ:	Storage Blank VHBLKZE

TABLES:

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

CLP PO ACTION:

None.

CLP PO ATTENTION:

1) Detected results for some analytes are qualified as nondetected and estimated (U,J) due to method blank, field blank, and equipment blank contamination (see Comment B).

2) Results for some analytes are qualified as estimated (J) due to calibration problems (see Comments C, D, and E).

3) Results for some analytes in sample Y1P24 are qualified as estimated (J) due to deuterated monitoring compound (DMC) recovery problems (see Comment F).

SAMPLING ISSUES:

1) Detected results for methylene chloride and cis-1,3-dichloropropene in some samples were qualified as non-detected and estimated (U,J) due to field blank and equipment blank contamination.

2) Sample Y1P10 was designated for "Laboratory QC" on the TR/COCs. Matrix spike/matrix spike duplicate (MS/MSD) analysis is not required for Region 9 volatile analysis by OLC03.2.

ADDITIONAL COMMENTS:

Other than laboratory artifacts (approximate retention times of 4.1, 6.3, and 7.5 minutes), tentatively identified compounds (TICs) were found in samples Y1P12, Y1P16, Y1P18 through Y1P27, and Y1P29 (see attached Form 1LCFs and Alkane Report).

Manual integrations were performed on calibration standards and samples due to incorrect auto integration. Manual integrations were reviewed and found to be satisfactory and in compliance with proper integration techniques.

Standard preparation logs are missing in the data package and cannot be evaluated. This information was requested from the laboratory but has not been received to date. Data are not qualified in this report due to missing standard preparation logs. Refer to the attached telephone record log for details.

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 (CLPAS) Volatile and Semivolatile Data Packages*;
- *USEPA Contract Laboratory Program Statement of Work for Low Concentration Organics Analysis,* OLC03.2, December 2000; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review*, June 2001.

II. Validation Summary

	Acceptable/Comment	
HOLDING TIMES/PRESERVATION	YES	
GC/MS TUNE/GC PERFORMANCE	YES	
INITIAL CALIBRATIONS	NO	C, D
CONTINUING CALIBRATIONS	NO	C, E
LABORATORY BLANKS	NO	B
FIELD BLANKS	NO	B
DEUTERATED MONITORING COMPOUNDS	NO	F
MATRIX SPIKE/DUPLICATES	N/A	
LABORATORY CONTROL SAMPLE/DUPLICATES	N/A	
INTERNAL STANDARDS	YES	
COMPOUND IDENTIFICATION	YES	
COMPOUND QUANTITATION	YES	A, G, H
SYSTEM PERFORMANCE	YES	
FIELD DUPLICATE SAMPLE ANALYSIS	YES	

N/A = Not Applicable

III. Validity and Comments

A. 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.

B. The following results are qualified as nondetected and estimated due to method blank, equipment blank, and field blank contaminations and are flagged "U,J" in Table 1A.

- Methylene chloride in sample Y1P27
- cis-1,3-Dichloropropene in samples Y1P10, Y1P12, Y1P17, Y1P18, and Y1P25
- Trichloroethene in storage blank VHBLKZE
- Toluene in sample Y1P29 and storage blank VHBLKZE

Toluene was found in method blanks VBLKRN and VBLKRQ, trichloroethene was found in method blank VBLKRQ, cis-1,3-dichloropropene was found in field blank Y1P15 and equipment blank Y1P26 (see Table 1A for concentrations), and methylene chloride was found in equipment blank Y1P34 (0.40 µg/L). Results for the samples listed above are considered nondetected and estimated (U,J) and the quantitation limits have been raised according to the blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 10 times the amount in any associated blank for the common laboratory contaminants or 5 times the amount for other compounds. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result and reported as nondetected. If the sample result is less than the CRQL, the result is reported as nondetected at the CRQL.

The following results are not qualified as nondetected and estimated because the analytes are not detected in the associated method blank, field blank, or equipment blank; however, the users should note that these analytes may be artifacts because they were found in other method blanks or equipment blank: chloromethane for Y1P25 (0.30 µg/L); trichloroethene for Y1P29 (0.15 µg/L); toluene for Y1P22 (0.12 µg/L) and Y1P23 (0.12 µg/L); acetone for Y1P13 (3.0 µg/L) and Y1P14 (3.6 µg/L); cis-1,3-dichloropropene for Y1P13 (0.11 µg/L), Y1P27 (0.11 µg/L), and Y1P28 (0.11 µg/L); and methylene chloride for Y1P11 (0.59 µg/L), Y1P12 (0.21 µg/L), Y1P14 (0.18 µg/L), Y1P18 (0.13 µg/L), Y1P20 (0.16 µg/L), Y1P22 (0.16 µg/L), Y1P23 (0.13 µg/L), Y1P24 (0.39 µg/L), and Y1P25 (0.15 µg/L).

A laboratory method blank is laboratory reagent water analyzed with all reagents, deuterated monitoring compounds, and internal standards and carried through the same sample preparation and analytical procedures as the field samples. The laboratory method blank is used to determine the level of contamination introduced by the laboratory during analysis.

An equipment blank is clean water that has been collected as a sample using decontaminated sampling equipment. The intent of an equipment blank is to monitor for contamination introduced by the sampling activity, although any laboratory introduced contamination will also be present.

A field blank is clean water prepared as a sample in the field by the sampler and shipped to the laboratory with the samples. A field blank is intended to detect contaminants that may have been introduced in the field, although any laboratory introduced contamination will be present. Contaminants that are found in the field blank which are absent in the laboratory method blank could be indicative of a field QC problem, a deficiency in the bottle preparation procedure, a difference in preparation of the laboratory and field blanks, or other indeterminate error.

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

- Acetone and tert butyl alcohol in all samples, all method blanks, and storage blank VHBLKZE
- 2-Butanone in sample Y1P29, method blanks VBLKRN and VBLKRQ, and storage blank VHBLKZE

Average RRFs were below the 0.05 validation criterion for acetone and tert butyl alcohol in the initial calibrations performed on February 16, 2005 (see Table 2). RRFs were below the 0.05 validation criterion for acetone and tert-butyl alcohol in the continuing calibrations performed on February 16, 18, 22, and 24, 2005 and for 2-butanone in the continuing calibrations performed on February 22 and 24, 2005 (see Table 2).

Detected results for the analytes listed above should be considered as the minimum concentrations at which these analytes are present in the samples. Where results are nondetected, false negatives may exist.

The DMCs trans-1,3-dichloropropene-d4, 2-butanone-d5, and 2-hexanone-d5 also had RRFs below 0.05 in the initial and continuing calibrations (See Table 2). Quantitation of the analytes associated with these DMCs may have been affected by the low RRFs (see attached Table 9 from the Functional Guidelines).

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

D. Results for the following analytes are qualified as estimated due to a large percent relative standard deviation (RSD) in the initial calibration and are flagged "J" in Table 1A.

- Bromomethane in samples Y1P10 through Y1P28 and method blanks VBLKOV and VBLKOW

The percent RSD for bromomethane exceeded the ≤30.0% validation criterion in the initial calibration performed on February 16, 2005 (see Table 2).

The initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical sequence and of producing a linear calibration curve.

E. Results for the following analytes are qualified as estimated due to large percent differences (%Ds) in the continuing calibrations and are flagged "J" in Table 1A.

- Chloromethane, vinyl chloride, trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, and acetone in samples Y1P10 through Y1P12 and Y1P15 through Y1P28 and method blank VBLKOW
- Carbon tetrachloride in sample Y1P29, method blanks VBLKRN and VBLKRQ, and storage blank VHBLKZE

- Dichlorodifluoromethane, chloromethane, and vinyl chloride in method blank VBLKRQ and storage blank VHBLKZE

The %Ds exceeded the ±30.0% validation criterion for the analytes listed above in the continuing calibrations performed on February 18, 22, and 24, 2005 (see Table 2).

Several DMCs also had %Ds that exceeded the ±30.0% validation criterion in the continuing calibrations (see Table 2). Quantitation of the analytes associated with these DMCs may have been affected by the high %Ds (see attached Table 9 from the Functional Guidelines).

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

F. 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-d_2}
- *trans*-1,2-Dichloroethene and *cis*-1,2-dichloroethene in sample Y1P24

{1,2-Dichloropropane-d_6}
- Cyclohexane, methylcyclohexane, 1,2-dichloropropane, and bromodichloromethane in sample Y1P24

DMC recoveries outside QC limits are shown below.

Sample	DMC	% Recovery	QC Limits
Y1P24	1,1-Dichloroethene-d2	56	65-130
Y1P24	1,2-Dichloropropane-d6	67	84-123

Detected results may be biased low. Where results are nondetected, false negatives may exist. The samples were not reanalyzed.

Surrogates (e.g., deuterated monitoring compounds (DMCs)) are organic compounds which are similar to the target analytes in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. All samples are spiked with DMCs prior to purging. DMCs provide information about both the laboratory performance on individual samples and the possible effects of the sample matrix on the analytical results.

G. Samples Y1P10, Y1P11, and Y1P24 were analyzed at 16.7-fold, 5.6-fold, and 3.6-fold dilutions, respectively, due to high levels of trichloroethene (TCE). The CRQLs listed for these samples in Table 1A have been multiplied by the dilution factor.

H. Samples Y1P13 and Y1P14 were reanalyzed at 2.0-fold dilutions due to high levels of TCE that exceeded the calibration range. Results for TCE in samples Y1P13 and Y1P14 are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

ANALYTICAL RESULTS
Table 1A

Case No. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	1			2			3			4			5			6			8		
Sample ID :	Y1P10			Y1P11			Y1P12			Y1P13 D1			Y1P14 D1			Y1P15 FB			Y1P16		
Collection Date :	2/15/2005			2/15/2005			2/15/2005			2/14/2005			2/14/2005			2/15/2005			2/16/2005		
Dilution Factor :	16.7			5.6			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Chloromethane	8.3U	J	EG	2.8U	J	EG	0.50U	J	E	0.50U			0.50U			0.50U	J	E	0.50U	J	E
Vinyl Chloride	8.3U	J	EG	2.8U	J	EG	0.50U	J	E	0.50U			0.50U			0.50U	J	E	0.50U	J	E
Bromomethane	8.3U	J	DG	2.8U	J	DG	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
Chloroethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	8.3U	J	EG	2.8U	J	EG	0.50U	J	E	0.50U			0.50U			0.50U	J	E	0.50U	J	E
1,1-Dichloroethene	3.9L	J	AEG	1.5L	J	AEG	0.50U	J	E	0.80			0.80			0.50U	J	E	0.50U	J	E
1,1,2-Trichloro-1,2,2-trifluoroethane	8.3U	J	EG	2.8U	J	EG	0.50U	J	E	0.50U			0.50U			0.50U	J	E	0.50U	J	E
Acetone	83U	J	CEG	28U	J	CEG	5.0U	J	CE	3.0L	J	AC	3.6L	J	AC	5.0U	J	CE	5.0U	J	CE
Carbon Disulfide	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.18L	J	A
Methyl Acetate	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Methylene Chloride	8.3U		G	0.59L	J	AG	0.21L	J	A	0.50U			0.18L	J	A	0.50U			0.50U		
trans-1,2-Dichloroethene	8.3U		G	2.8U		G	0.50U			0.23L	J	A	0.26L	J	A	0.50U			0.50U		
Methyl tert-Butyl Ether	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	4.2L	J	AG	9.5		G	0.50U			6.8			6.8			0.50U			2.0		
2-Butanone	83U		G	28U		G	5.0U			5.0U			5.0U			5.0U			5.0U		
Bromochloromethane	8.3U		G	2.8U		G	0.19L	J	A	0.50U			0.50U			0.50U			0.50U		
Chloroform	8.3U		G	2.8U		G	4.5			0.19L	J	A	0.21L	J	A	0.50U			0.42L	J	A
1,1,1-Trichloroethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon Tetrachloride	8.3U		G	2.8U		G	0.50U			0.19L	J	A	0.21L	J	A	0.50U			0.50U		
Benzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Trichloroethene	210		G	70		G	0.50U			26		H	27		H	0.50U			3.0		
Methylcyclohexane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	8.3U		G	2.8U		G	4.5			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	8.3U	J	BG	2.8U		G	0.50U	J	B	0.11L	J	A	0.50U			0.11L	J	A	0.50U		
4-Methyl-2-pentanone	83U		G	28U		G	5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	8.1L	J	AG	2.4L	J	AG	0.50U			0.21L	J	A	0.28L	J	A	0.50U			0.50U		
2-Hexanone	83U		G	28U		G	5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	8.3U		G	2.8U		G	4.5			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		

ANALYTICAL RESULTS
Table 1A

Case No. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	1			2			3			4			5			6			8		
Sample ID :	Y1P10			Y1P11			Y1P12			Y1P13 D1			Y1P14 D1			Y1P15 FB			Y1P16		
Collection Date :	2/15/2005			2/15/2005			2/15/2005			2/14/2005			2/14/2005			2/15/2005			2/16/2005		
Dilution Factor :	16.7			5.6			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Chlorobenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Xylenes (total)	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	8.3U		G	2.8U		G	1.5			0.50U			0.50U			0.50U			0.50U		
Isopropylbenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.11L	J	A	0.50U			0.50U		
1,2,3-Trichlorobenzene	8.3U		G	2.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
Tertiary Butyl Alcohol	83U	J	CG	28U	J	CG	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C

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. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	9			10			11			12			13			14			15		
Sample ID :	Y1P17			Y1P18			Y1P19			Y1P20			Y1P21			Y1P22 D2			Y1P23 D2		
Collection Date :	2/16/2005			2/16/2005			2/16/2005			2/16/2005			2/16/2005			2/16/2005			2/16/2005		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U			0.11L	J	A	0.50U			0.50U			0.50U			0.50U			0.50U		
Chloromethane	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Vinyl Chloride	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Bromomethane	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
1,1-Dichloroethene	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.10L	J	AE
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Acetone	5.0U	J	CE	5.0U	J	CE	5.0U	J	CE	5.0U	J	CE	5.0U	J	CE	5.0U	J	CE	5.0U	J	CE
Carbon Disulfide	0.14L	J	A	0.13L	J	A	0.98			2.8			0.27L	J	A	0.15L	J	A	0.50U		
Methyl Acetate	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methylene Chloride	0.50U			0.13L	J	A	0.50U			0.16L	J	A	0.50U			0.16L	J	A	0.13L	J	A
trans-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl tert-Butyl Ether	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	2.3			0.80			0.50U			0.50U			0.15L	J	A	0.31L	J	A	0.38L	J	A
2-Butanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	0.34L	J	A	0.29L	J	A	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon Tetrachloride	0.50U			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			0.50U		
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichloroethene	3.8			12			0.50U			0.50U			1.5			1.5			1.7		
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U	J	B	0.50U	J	B	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			5.0U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.50U			0.12L	J	A	0.12L	J	A
trans-1,3-Dichloropropene	0.50U			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			0.50U		
Tetrachloroethene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
2-Hexanone	5.0U			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			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		

ANALYTICAL RESULTS
Table 1A

Case No. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration In ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	9			10			11			12			13			14			15		
Sample ID :	Y1P17			Y1P18			Y1P19			Y1P20			Y1P21			Y1P22 D2			Y1P23 D2		
Collection Date :	2/16/2005			2/16/2005			2/16/2005			2/16/2005			2/16/2005			2/16/2005			2/16/2005		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Chlorobenzene	0.50U			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			0.50U		
Xylenes (total)	0.50U			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			0.50U		
Bromoform	0.50U			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			0.50U		
1,1,2,2-Tetrachloroethane	0.50U			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			0.50U		
1,4-Dichlorobenzene	0.50U			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			0.50U		
1,2-Dibromo-3-chloropropane	0.50U			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			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Tertiary Butyl Alcohol	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C

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. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	16			17			18			20			21			22			Method Blank		
Sample ID :	Y1P24			Y1P25			Y1P26 EB			Y1P27			Y1P28			Y1P29			VBLKOV		
Collection Date :	2/16/2005			2/16/2005			2/16/2005			2/17/2005			2/17/2005			2/17/2005					
Dilution Factor :	3.6			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.60L	J	AG	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloromethane	1.8U	J	EG	0.30L	J	AE	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U			0.50U		
Vinyl Chloride	1.8U	J	EG	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U			0.50U		
Bromomethane	1.8U	J	DG	0.18L	J	AD	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U			0.50U	J	D
Chloroethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	1.8U	J	EG	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U			0.50U		
1,1-Dichloroethene	0.68L	J	AEG	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U			0.50U		
1,1,2-Trichloro-1,2,2-trifluoroethane	1.8U	J	EG	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U			0.50U		
Acetone	18U	J	CEG	5.0U	J	CE	2.6L	J	ACE	5.0U	J	CE	5.0U	J	CE	5.0U	J	C	5.0U	J	C
Carbon Disulfide	1.8U		G	0.14L	J	A	0.50U			0.39L	J	A	0.21L	J	A	0.50U			0.50U		
Methyl Acetate	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methylene Chloride	0.39L	J	AG	0.15L	J	A	0.50U			0.50U	J	B	0.50U			0.50U			0.50U		
trans-1,2-Dichloroethene	1.8U		FG	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl tert-Butyl Ether	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	6.9		FG	0.22L	J	A	0.50U			0.50U			0.50U			0.50U			0.50U		
2-Butanone	18U		G	5.0U			5.0U			5.0U			5.0U			5.0U	J	C	5.0U		
Bromochloromethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,1-Trichloroethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	1.8U		FG	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon Tetrachloride	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U	J	E	0.50U		
Benzene	1.8U		G	0.14L	J	A	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichloroethene	39		G	2.4			0.50U			0.50U			0.50U			0.15L	J	A	0.50U		
Methylcyclohexane	1.8U		FG	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	1.8U		FG	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	1.8U		FG	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	1.8U		G	0.50U	J	B	0.11L	J	A	0.11L	J	A	0.11L	J	A	0.50U			0.50U		
4-Methyl-2-pentanone	18U		G	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U	J	B	0.50U		
trans-1,3-Dichloropropene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	0.87L	J	AG	0.50U			0.50U			0.12L	J	A	0.50U			0.58			0.50U		
2-Hexanone	18U		G	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		

ANALYTICAL RESULTS
Table 1A

Case No. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	16			17			18			20			21			22			Method Blank		
Sample ID :	Y1P24			Y1P25			Y1P26 EB			Y1P27			Y1P28			Y1P29			VBLKOV		
Collection Date :	2/16/2005			2/16/2005			2/16/2005			2/17/2005			2/17/2005			2/17/2005					
Dilution Factor :	3.6			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Chlorobenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Xylenes (total)	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Isopropylbenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	1.8U		G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Tertiary Butyl Alcohol	18U	J	CG	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	2.2L	J	AC	5.0U	J	C

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. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	Method Blank			Method Blank			Method Blank			Storage Blank											
Sample ID :	VBLKOW			VBLKRN			VBLKRQ			VHBLKZE			CRQL								
Collection Date :																					
Dilution Factor :	1.0			1.0			1.0			1.0											
Volatile Compound	**Result**	**Val**	**Com**	**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	J	E	0.50U	J	E	0.50								
Chloromethane	0.50U	J	E	0.11L	J	A	0.50U	J	E	0.50U	J	E	0.50								
Vinyl Chloride	0.50U	J	E	0.50U			0.50U	J	E	0.50U	J	E	0.50								
Bromomethane	0.50U	J	D	0.50U			0.50U			0.50U			0.50								
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50								
Trichlorofluoromethane	0.50U	J	E	0.50U			0.50U			0.50U			0.50								
1,1-Dichloroethene	0.50U	J	E	0.50U			0.50U			0.50U			0.50								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U	J	E	0.50U			0.50U			0.50U			0.50								
Acetone	5.0U	J	CE	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0								
Carbon Disulfide	0.50U			0.50U			0.50U			0.50U			0.50								
Methyl Acetate	0.50U			0.50U			0.50U			0.50U			0.50								
Methylene Chloride	0.50U			0.50U			0.50U			0.50U			0.50								
trans-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50								
Methyl tert-Butyl Ether	0.50U			0.50U			0.50U			0.50U			0.50								
1,1-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50								
cis-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50								
2-Butanone	5.0U			5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0								
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50								
Chloroform	0.50U			0.50U			0.50U			0.50U			0.50								
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50								
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50								
Carbon Tetrachloride	0.50U			0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50								
Benzene	0.50U			0.50U			0.50U			0.50U			0.50								
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50								
Trichloroethene	0.50U			0.50U			0.17L	J	A	0.50U	J	B	0.50								
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50								
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50								
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50								
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50								
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0								
Toluene	0.50U			0.21L	J	A	0.34L	J	A	0.50U	J	B	0.50								
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50								
1,1,2-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50								
Tetrachloroethene	0.50U			0.50U			0.50U			0.50U			0.50								
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0								
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50								
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50								

ANALYTICAL RESULTS
Table 1A

Case No. : 33865 SDG No. : Y1P13
Site : Alhambra
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Kendra DeSantolo, ESAT/LDC
Date : April 7, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	Method Blank			Method Blank			Method Blank			Storage Blank											
Sample ID :	VBLKOW			VBLKRN			VBLKRQ			VHBLKZE			CRQL								
Collection Date :																					
Dilution Factor :	1.0			1.0			1.0			1.0											
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50								
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50								
Xylenes (total)	0.50U			0.50U			0.50U			0.50U			0.50								
Styrene	0.50U			0.50U			0.50U			0.50U			0.50								
Bromoform	0.50U			0.50U			0.50U			0.50U			0.50								
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50								
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50								
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50								
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50								
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50								
1,2-Dibromo-3-chloropropane	0.50U			0.50U			0.50U			0.50U			0.50								
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50								
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50								
Tertiary Butyl Alcohol	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5								

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 Organic Data Review," October 1999.

U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
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; the associated numerical value is the approximate concentration of the analyte in the sample.
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 above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 2
Calibration Summary

Case No.: 33865 SDG No.: Y1P13
Site: Alhambra
Laboratory: Liberty Analytical Corp. (LIBRTY)
Reviewer: Kendra DeSantolo, ESAT/LDC
Date: April 7, 2005

RELATIVE RESPONSE FACTORS

	$\overline{RRF}$	$\overline{RRF}$	RRF	RRF	RRF	RRF
Analysis date:	2/16/05	2/16/05	2/16/05	2/18/05	2/22/05	2/24/05
Analysis time:	1041-1231	1028-1217	11:36	08:53	09:58	09:54
GC/MS I.D.:	HP71	HP73	HP71	HP71	HP73	HP73
Analyte	Init.	Init.	Cont.	Cont.	Cont.	Cont.
Acetone	0.033	0.038	0.033	0.047	0.034	0.037
2-Butanone	-----	-----	-----	-----	0.041	0.045
tert butyl alcohol	0.012	0.012	0.013	0.014	0.010	0.012
2-Butanone-d5	-----	0.046	-----	-----	0.037	0.048
2-Hexanone-d5	-----	-----	-----	-----	0.041	0.049
trans-1,3-Dichloropropene-d4	-----	-----	-----	-----	0.043	0.048

RELATIVE STANDARD DEVIATIONS AND PERCENT DIFFERENCES

	RSD	%D	%D	%D
Analysis Date:	2/16/05	2/18/05	2/22/04	2/24/04
Analysis Time:	1041-1231	08:53	09:58	09:54
GC/MS I.D.:	HP71	HP71	HP73	HP73
Analyte	Init.	Cont.	Cont.	Cont.
Acetone	-----	+42.4	-----	-----
Bromomethane	37.1	-----	-----	-----
Carbon tetrachloride	-----	-----	+30.5	+33.2
Chloromethane	-----	+38.2	-----	-49.3
Dichlorodifluoromethane	-----	-----	-----	-69.9
1,1-Dichloroethene	-----	+32.2	-----	-----
1,1,2-Trichloro-1,2,2-Trifluoroethane	-----	+35.8	-----	-----
Trichlorofluoromethane	-----	+47.1	-----	-----
Vinyl chloride	-----	+31.5	-----	-32.1
2-Butanone-d5	-----	-----	-----	-----
Chloroethane-d5	-----	+35.8	-----	-----
1,1-Dichloroethene-d2	-----	+41.3	-----	-----
Vinyl chloride-d3	-----	+36.0	-----	-----

- = RRF biased low; + = RRF biased high.

ASSOCIATED SAMPLES AND METHOD BLANKS

Initial 2/16/05 (HP71):	Y1P13, Y1P13DL, Y1P14, Y1P14DL, Y1P10 through Y1P12, Y1P15 through Y1P28; method blanks VHBLKOV and VBLKOW
Cont., 2/16/05 (HP71):	Y1P13 and Y1P14; method blank VBLKOV
Cont., 2/18/05 (HP71):	Y1P13DL, Y1P14DL, Y1P10 through Y1P12, Y1P15 through Y1P28; method blank VBLKOW
Initial 2/16/05 (HP73):	Y1P29; method blanks VBLKRN and VBLKRQ; storage blank VHBLKZE
Cont., 2/22/05 (HP73):	Y1P29; method blank VBLKRN
Cont., 2/24/05 (HP73):	method blank VBLKRQ; storage blank VHBLKZE

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y1P12

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 33865 Client No.: 1125.0 SDG No.: Y1P13

Lab Sample ID: 574606 Date Received: 02/16/2005

Lab File ID: 574606A71 Date Analyzed: 02/18/2005

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.51	3.8	J
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					

FORM I LCV-TIC OLC03.2

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y1P16

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 33865 Client No.: 1125.0 SDG No.: Y1P13

Lab Sample ID: 574608 Date Received: 02/17/2005

Lab File ID: 574608A71 Date Analyzed: 02/18/2005

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	7.16	0.55	J
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					

FORM I LCV-TIC OLC03.2

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y1P18

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 33865 Client No.: 1125.0 SDG No.: Y1P13

Lab Sample ID: 574610 Date Received: 02/17/2005

Lab File ID: 574610A71 Date Analyzed: 02/18/2005

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.50	1.3	J
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					

FORM I LCV-TIC OLC03.2