UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2NWH CERCLIS No: IND001213503

Case No: 357064 Site Name/Location: CONTINENTAL Steel CORP (IN)

Contractor or EPA Lab: MHSem Data User: IDEM

No. of Samples: 5 Date Sampled or Date Received: 9/21/04

Have Chain-of-Custody records been received? Yes X No_____
Have traffic reports or packing lists been received? Yes X No _____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No____
No of samples claimed: _____ No. of samples received: _____

Received by: Adam Johnson Date: 21 Sept 04

Received by LSSS: Adam Johnson Date: 19 Oct 04

Review started: _____ Reviewer Signature: _____

Total time spent on review: _____ Date review completed: _____

Copied by: _____ Date: _____

Mailed to user by: Adam Johnson Date: 20 Oct 06

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Date: _____

DATE: October 20, 2006

Indiana Dept of Environmental Management
Office of Environmental/Site Investigation Section
ATTN: Mark Jaworski
P.O. Box 6015
100 N. Senate Avenue
Indianapolis, IN 46206-6015

SITE NAME: Continental Steel Corp (IN)

CASE #	LAB	SAMPLES	SDG	MATRIX
35706	Mitkem	5	E2NW4	soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

RECEIVED
OCT 26 2006
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: **Electronic (Level 2) Review of Data**

Received for Review on: October 19, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IDEM

THE FOLLOWING DATA HAS BEEN ELECTRONICALLY REVIEWED BY CADRE. NO REVIEW OF THE RAW DATA, LABORATORY NARRATIVE, LABORATORY FORMS OR CHAIN-OF-CUSTODY FORMS WAS PERFORMED.

SITE Name: Continental Steel Corp., IN

Case Number: 35706 SDG Number: E2NW4

Number and Type of Samples: 5 Soils (VOAs)

Sample Numbers: E2NW4 – E2NW6, E2NW8, E2NW9

Laboratory: Mitkem Hrs for Review:

Following are our findings:

RECEIVED
OCT 26 2006
DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35706
Site Name: Continental Steel Corp., IN

SDG Number: E2NW4
Laboratory: Mitkem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Five (5) soil samples labeled E2NW4 through E2NW6, E2NW8 and E2NW9, were collected on August 30, 2006. The lab received the samples on August 31, 2006 in good condition. All samples were analyzed for the low level volatile list of organic analytes. All samples were analyzed according to CLP SOW SOM01.1.

Case Number: 35706
Site Name: Continental Steel Corp., IN

SDG Number: E2NW4
Laboratory: Mitkem

1. HOLDING TIME

See National Functional Guidelines Report #3.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

See National Functional Guidelines Report #3.

3. CALIBRATION

See National Functional Guidelines Report #3.

4. BLANKS

See National Functional Guidelines Report #3.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

See National Functional Guidelines Report #3.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

See National Functional Guidelines Report #3.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as trip blanks, field blanks or field duplicates. Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

See National Functional Guidelines Report #3.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

See National Functional Guidelines Report #3.

Case Number: 35706
Site Name: Continental Steel Corp., IN

SDG Number: E2NW4
Laboratory: Mitkem

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

None.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
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 action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

National Functional Guidelines Report # 3

10:28 Mon, Oct 16, 2006

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

Blanks

Blanks	**VOA_LOW_MED**
VLB48	The following volatile samples have analyte concentrations reported greater than or equal to the CRQL. The associated storage blank is less than the concentration criteria. Detected and nondetected compounds are not qualified. Professional judgement is recommended for qualification of the data.
	Tetrachloroethene E2NW8, E2NW9

National Functional Guidelines Report # 3

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

Continuing Calibration Verification

Continuing Calibration Verification	**VOA_LOW_MED**
VC8	The following volatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	1,1,2,2-Tetrachloroethane VSTD0501N
	E2NW5ME, E2NW5MEMS, E2NW5MEMSD, E2NW6ME, E2NW6MEDL, E2NW7ME, E2NW7MEDL, E2NW8ME, VBLK1N

National Functional Guidelines Report # 3

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

DMC/Surrogate

DMC/Surrogate	**VOA_LOW_MED**
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	Benzene-d6 E2NW4, E2NW4RE, E2NW6, E2NW7, E2NW8
DMC/Surrogate	**VOA_LOW_MED**
VDSS4	The following volatile samples have one or more DMC/SMC recovery values is less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	1,4-Dioxane-d8 E2NW5ME, E2NW5MEMS, E2NW5MEMSD
DMC/Surrogate	**VOA_LOW_MED**
VDSS5	The following volatile samples have DMC/SMC recoveries below the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified R.
	Benzene-d6 E2NW5MEMS, E2NW5MEMSD, E2NW5MS, E2NW5MSD

National Functional Guidelines Report # 3

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

Detection Limit

Detection Limit	**VOA_LOW_MED**
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	cis-1,3-Dichloropropene E2NW4, E2NW5ME, E2NW5MEMS, E2NW5MEMSD, E2NW5MSD, E2NW6, E2NW6MEDL, E2NW7, E2NW7ME, E2NW7MEDL, E2NW8, E2NW8ME

National Functional Guidelines Report # 3

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

Initial Calibration

Initial Calibration	**VOA_LOW_MED**
VC15	The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	1,4-Dioxane BFB1L, BFB2K
	E2NW4, E2NW5, E2NW5ME, E2NW5MEMS, E2NW5MEMSD, E2NW5MS, E2NW5MSD, E2NW6, E2NW6ME, E2NW6MEDL, E2NW7, E2NW7ME, E2NW7MEDL, E2NW8, E2NW8ME, VBLK1N, VBLK2X

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

Initial Calibration Verification

Initial Calibration Verification	**VOA_LOW_MED**
VC20	The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified. Professional judgement is recommended for qualification of the data.
	1,4-Dioxane-d8 BFB1L, BFB2K, BFB2N
	E2NW4, E2NW4RE, E2NW5, E2NW5ME, E2NW5MEMS, E2NW5MEMSD, E2NW5MS, E2NW5MSD, E2NW6, E2NW6ME, E2NW6MEDL, E2NW7, E2NW7ME, E2NW7MEDL, E2NW8, E2NW8ME, E2NW9, VBLK1N, VBLK2N, VBLK2X, VHBLK2N

National Functional Guidelines Report # 3

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

Internal Standard

Internal Standard	**VOA_LOW_MED**
VIS31	The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	Chlorobenzene-d5 E2NW4, E2NW4RE, E2NW6, E2NW7, E2NW8

Lab MITKEM (Mitkem Corporation) **SDG** E2NW4 **Case** 35706 **Contract** EPW05030 **Region** 5 **DDTID** 32592

Data Review Results

Matrix Spikes

Matrix Spikes	**VOA_LOW_MED**
VMS4	Volatile matrix spike and/or matrix spike duplicate data is missing for this SDG. Detected and nondetected compounds are not qualified.
	E2NW4, E2NW6, E2NW7, E2NW8, E2NW9

Analytical Results (Qualified Data)

Case #: 35706
Site :
Lab. :
Reviewer :
Date :

SDG : E2NW4
CONTINENTAL STEEL
MITKEM

Number of Soil Samples : 6
Number of Water Samples : 0
Number of Sediment Samples : 0

Sample Number :	E2NW4		E2NW4RE		E2NW5		E2NW5ME		E2NW5MEMS	
Sampling Location :	KB7		KB7		KB79-10					
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	8/30/2006				8/30/2006					
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.6	U	8.3	U	4.5	U	230	UJ	220	R
Chloromethane	5.6	U	8.3	U	4.5	U	230	UJ	220	R
Vinyl chloride	5.6	U	8.3	U	4.5	U	230	U	220	R
Bromomethane	5.6	U	8.3	U	4.5	U	230	UJ	220	R
Chloroethane	5.6	U	8.3	U	4.5	U	230	UJ	220	R
Trichlorofluoromethane	5.6	U	8.3	U	4.5	U	230	U	220	R
1,1-Dichloroethene	5.6	U	8.3	U	4.5	U	230	U	1500	J
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U	8.3	U	4.5	U	230	U	220	R
Acetone	11	U	17	U	8.9	U	450	U	440	R
Carbon disulfide	5.6	U	8.3	U	4.5	U	230	UJ	220	R
Methyl acetate	5.6	U	8.3	U	4.5	U	230	U	220	R
Methylene chloride	4.4	J	8.3	U	4.5	U	230	U	220	R
trans-1,2-Dichloroethene	5.6	U	8.3	U	4.5	U	230	U	220	R
Methyl tert-butyl ether	5.6	U	8.3	U	4.5	U	230	U	220	R
1,1-Dichloroethane	5.6	U	8.3	U	4.5	U	230	U	220	R
cis-1,2-Dichloroethene	5.6	U	8.3	U	150		200	J	120	J
2-Butanone	11	U	17	U	8.9	U	310	J	270	J
Bromochloromethane	5.6	U	8.3	U	4.5	U	230	U	220	R
Chloroform	5.6	U	8.3	U	4.5	U	26	J	220	R
1,1,1-Trichloroethane	5.6	R	8.3	R	4.5	U	230	U	220	R
Cyclohexane	5.6	R	8.3	R	4.5	U	230	U	220	R
Carbon tetrachloride	5.6	R	8.3	R	4.5	U	230	U	220	R
Benzene	5.6	R	8.3	R	4.5	U	230	U	1800	J
1,2-Dichloroethane	5.6	U	8.3	U	4.5	U	230	U	220	R
1,4-Dioxane	110	R	170	U	89	R	4500	R	4400	R
Trichloroethene	110	J	150	J	830		2400		2800	J
Methylcyclohexane	5.6	R	8.3	R	4.5	U	230	U	220	R
1,2-Dichloropropane	5.6	R	8.3	R	4.5	U	230	U	220	R
Bromodichloromethane	5.6	R	8.3	R	4.5	U	230	U	220	R
cis-1,3-Dichloropropene	5.6	R	8.3	R	4.5	U	230	U	96	J
4-Methyl-2-pentanone	11	R	17	R	8.9	U	450	U	440	R
Toluene	5.6	R	8.3	R	4.5	U	230	U	1800	J
trans-1,3-Dichloropropene	5.6	R	8.3	R	4.5	U	230	U	220	R

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 35706
Site :
Lab. :
Reviewer :
Date :

SDG : E2NW4
CONTINENTAL STEEL
MITKEM

Sample Number :	E2NW4		E2NW4RE		E2NW5		E2NW5ME		E2NW5MEMS	
Sampling Location :	KB7		KB7		KB79-10					
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	8/30/2006				8/30/2006					
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.6	R	8.3	R	4.5	U	230	U	220	R
Tetrachloroethene	5.6	R	8.3	R	4.5	U	23	J	220	R
2-Hexanone	11	R	17	R	8.9	U	450	U	440	R
Dibromochloromethane	5.6	R	8.3	R	4.5	U	230	U	220	R
1,2-Dibromoethane	5.6	R	8.3	R	4.5	U	230	U	220	R
Chlorobenzene	5.6	R	8.3	R	4.5	U	230	U	1900	J
Ethylbenzene	5.6	R	8.3	R	4.5	U	230	U	220	R
o-Xylene	5.6	R	8.3	R	4.5	U	230	U	220	R
m,p-Xylene	5.6	R	8.3	R	4.5	U	230	U	220	R
Styrene	5.6	R	8.3	R	4.5	U	230	U	220	R
Bromoform	5.6	R	8.3	R	4.5	U	230	U	220	R
Isopropylbenzene	5.6	R	8.3	R	4.5	U	230	U	220	R
1,1,2,2-Tetrachloroethane	5.6	R	8.3	R	4.5	U	230	UJ	220	R
1,3-Dichlorobenzene	5.6	R	8.3	R	4.5	U	230	U	220	R
1,4-Dichlorobenzene	5.6	R	8.3	R	4.5	U	230	U	220	R
1,2-Dichlorobenzene	5.6	R	8.3	R	4.5	U	230	U	220	R
1,2-Dibromo-3-chloropropane	5.6	R	8.3	R	4.5	U	230	U	220	R
1,2,4-Trichlorobenzene	5.6	R	8.3	R	4.5	U	230	U	220	R
1,2,3-Trichlorobenzene	5.6	R	8.3	R	4.5	U	230	U	220	R

Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E2NW5MEMSD		E2NW5MS		E2NW5MSD		E2NW6		E2NW6ME	
Sampling Location :							KB84-5			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :							8/30/2006			
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		4.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Chloromethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Vinyl chloride	220	R	4.5	R	4.5	R	4.4	U	830	U
Bromomethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Chloroethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Trichlorofluoromethane	220	R	4.5	R	4.5	R	4.4	U	830	U
1,1-Dichloroethene	1700	J	58	J	53	J	4.4	U	830	U
1,1,2-Trichloro-1,2,2-trifluoroethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Acetone	170	J	9.1	R	9.1	R	8.8	U	1700	U
Carbon disulfide	220	R	4.5	R	4.5	R	4.4	U	830	U
Methyl acetate	220	R	4.5	R	4.5	R	4.4	U	830	U
Methylene chloride	220	R	4.5	R	2.2	J	3.3	J	830	U
trans-1,2-Dichloroethene	220	R	4.5	R	4.5	R	6.0		830	U
Methyl tert-butyl ether	220	R	4.5	R	4.5	R	4.4	U	830	U
1,1-Dichloroethane	220	R	4.5	R	4.5	R	4.4	U	830	U
cis-1,2-Dichloroethene	130	J	160	J	130	J	1100		2000	
2-Butanone	260	J	9.1	R	9.1	R	8.8	U	1700	U
Bromochloromethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Chloroform	220	R	4.5	R	4.5	R	4.4	U	830	U
1,1,1-Trichloroethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Cyclohexane	220	R	4.5	R	4.5	R	4.4	U	830	U
Carbon tetrachloride	220	R	4.5	R	4.5	R	4.4	U	830	U
Benzene	2100	J	63	J	55	J	4.4	U	830	U
1,2-Dichloroethane	220	R	4.5	R	4.5	R	4.4	U	830	U
1,4-Dioxane	4400	R	91	R	91	R	88	R	17000	R
Trichloroethene	3300	J	930	J	780	J	6200		75000	
Methylcyclohexane	220	R	4.5	R	4.5	R	4.4	U	830	U
1,2-Dichloropropane	220	R	4.5	R	4.5	R	4.4	U	830	U
Bromodichloromethane	220	R	4.5	R	4.5	R	4.4	U	830	U
cis-1,3-Dichloropropene	220	R	4.5	R	4.5	R	4.4	U	830	U
4-Methyl-2-pentanone	440	R	9.1	R	9.1	R	8.8	U	1700	U
Toluene	2200	J	56	J	50	J	4.4	U	830	U
trans-1,3-Dichloropropene	220	R	4.5	R	4.5	R	4.4	U	830	U

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Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E2NW5MEMSD		E2NW5MS		E2NW5MSD		E2NW6		E2NW6ME	
Sampling Location :							KB84-5			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :							8/30/2006			
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		4.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Tetrachloroethene	220	R	4.5	R	4.5	R	4.1	J	830	U
2-Hexanone	440	R	9.1	R	9.1	R	8.8	U	1700	U
Dibromochloromethane	220	R	4.5	R	4.5	R	4.4	U	830	U
1,2-Dibromoethane	220	R	4.5	R	4.5	R	4.4	U	830	U
Chlorobenzene	2100	J	49	J	45	J	4.4	U	830	U
Ethylbenzene	220	R	4.5	R	4.5	R	4.4	U	830	U
o-Xylene	220	R	4.5	R	4.5	R	4.4	U	830	U
m,p-Xylene	220	R	4.5	R	4.5	R	4.4	U	830	U
Styrene	220	R	4.5	R	4.5	R	4.4	U	830	U
Bromoform	220	R	4.5	R	4.5	R	4.4	R	830	U
Isopropylbenzene	220	R	4.5	R	4.5	R	4.4	U	830	U
1,1,2,2-Tetrachloroethane	220	R	4.5	R	4.5	R	4.4	U	830	UJ
1,3-Dichlorobenzene	220	R	4.5	R	4.5	R	4.4	R	830	U
1,4-Dichlorobenzene	220	R	4.5	R	4.5	R	4.4	R	830	U
1,2-Dichlorobenzene	220	R	4.5	R	4.5	R	4.4	R	830	U
1,2-Dibromo-3-chloropropane	220	R	4.5	R	4.5	R	4.4	R	830	U
1,2,4-Trichlorobenzene	220	R	4.5	R	4.5	R	4.4	R	830	U
1,2,3-Trichlorobenzene	220	R	4.5	R	4.5	R	4.4	R	830	U

Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E2NW6MEDL		E2NW7		E2NW7ME		E2NW7MEDL		E2NW8	
Sampling Location :			KB84-5B						KB8 9.5-10.5	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			8/30/2006						8/30/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	16.0		1.0		4.0		8.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	3300	U	4.0	U	910	U	1800	U	4.4	R
Chloromethane	3300	U	4.0	U	910	U	1800	U	4.4	R
Vinyl chloride	3300	U	4.0	U	910	U	1800	U	4.4	R
Bromomethane	3300	U	4.0	U	910	U	1800	U	4.4	R
Chloroethane	3300	U	4.0	U	910	U	1800	U	4.4	R
Trichlorofluoromethane	3300	U	4.0	U	910	U	1800	U	4.4	R
1,1-Dichloroethene	3300	U	2.4	J	100	J	240	J	4.4	R
1,1,2-Trichloro-1,2,2-trifluoroethane	3300	U	4.0	U	910	U	1800	U	4.4	R
Acetone	6700	U	8.1	U	1800	U	3600	U	8.8	R
Carbon disulfide	3300	U	4.0	U	910	U	1800	U	4.4	R
Methyl acetate	3300	U	4.0	U	910	U	1800	U	4.4	R
Methylene chloride	3300	U	3.6	J	910	U	240	J	4.9	J
trans-1,2-Dichloroethene	3300	U	11		910	U	1800	U	2.0	J
Methyl tert-butyl ether	3300	U	4.0	U	910	U	1800	U	4.4	R
1,1-Dichloroethane	3300	U	4.0	U	910	U	1800	U	4.4	R
cis-1,2-Dichloroethene	2200	J	1700		1100		1300	J	440	J
2-Butanone	6700	U	8.1	U	1800	U	3600	U	8.8	R
Bromochloromethane	3300	U	4.0	U	910	U	1800	U	4.4	R
Chloroform	3300	U	4.0	U	910	U	1800	U	4.4	R
1,1,1-Trichloroethane	3300	U	4.0	R	910	U	1800	U	4.4	R
Cyclohexane	3300	U	4.0	R	910	U	1800	U	4.4	R
Carbon tetrachloride	3300	U	4.0	R	910	U	1800	U	4.4	R
Benzene	3300	U	4.0	R	910	U	1800	U	4.4	R
1,2-Dichloroethane	3300	U	4.0	U	910	U	1800	U	4.4	R
1,4-Dioxane	67000	R	81	R	18000	R	36000	R	88	R
Trichloroethene	85000		7700	J	46000		53000		6800	J
Methylcyclohexane	3300	U	4.0	R	910	U	1800	U	4.4	R
1,2-Dichloropropane	3300	U	4.0	R	910	U	1800	U	4.4	R
Bromodichloromethane	3300	U	4.0	R	910	U	1800	U	4.4	R
cis-1,3-Dichloropropene	3300	U	4.0	R	910	U	1800	U	4.4	R
4-Methyl-2-pentanone	6700	U	8.1	R	1800	U	3600	U	8.8	R
Toluene	3300	U	4.0	R	910	U	1800	U	4.4	R
trans-1,3-Dichloropropene	3300	U	4.0	R	310	J	1800	U	4.4	R

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E2NW6MEDL		E2NW7		E2NW7ME		E2NW7MEDL		E2NW8	
Sampling Location :			KB84-5B						KB8 9.5-10.5	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			8/30/2006						8/30/2006	
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	16.0		1.0		4.0		8.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	3300	U	4.0	R	910	U	1800	U	4.4	R
Tetrachloroethene	3300	U	6.8	J	910	U	1800	U	4.7	J
2-Hexanone	6700	U	8.1	R	1800	U	3600	U	8.8	R
Dibromochloromethane	3300	U	4.0	R	910	U	1800	U	4.4	R
1,2-Dibromoethane	3300	U	4.0	R	910	U	1800	U	4.4	R
Chlorobenzene	3300	U	4.0	R	910	U	1800	U	4.4	R
Ethylbenzene	3300	U	4.0	R	910	U	1800	U	4.4	R
o-Xylene	3300	U	4.0	R	910	U	1800	U	4.4	R
m,p-Xylene	3300	U	4.0	R	910	U	1800	U	4.4	R
Styrene	3300	U	4.0	R	910	U	1800	U	4.4	R
Bromoform	3300	U	4.0	R	910	U	1800	U	4.4	R
Isopropylbenzene	3300	U	4.0	R	910	U	1800	U	4.4	R
1,1,2,2-Tetrachloroethane	3300	UJ	4.0	R	910	UJ	1800	UJ	4.4	R
1,3-Dichlorobenzene	3300	U	4.0	R	910	U	1800	U	4.4	R
1,4-Dichlorobenzene	3300	U	4.0	R	910	U	1800	U	4.4	R
1,2-Dichlorobenzene	3300	U	4.0	R	910	U	1800	U	4.4	R
1,2-Dibromo-3-chloropropane	3300	U	4.0	R	910	U	1800	U	4.4	R
1,2,4-Trichlorobenzene	3300	U	4.0	R	910	U	1800	U	4.4	R
1,2,3-Trichlorobenzene	3300	U	4.0	R	910	U	1800	U	4.4	R

Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E2NW8ME		E2NW9		VBLK1N		VBLK2N		VBLK2X	
Sampling Location :			KB9 1-2							
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			8/30/2006							
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	4.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Chloromethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Vinyl chloride	930	U	4.0	U	250	U	5.0	U	5.0	U
Bromomethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Chloroethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Trichlorofluoromethane	930	U	4.0	U	250	U	5.0	U	5.0	U
1,1-Dichloroethene	290	J	4.0	U	250	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Acetone	1900	U	7.9	U	500	U	10	U	10	U
Carbon disulfide	930	U	4.0	U	250	U	5.0	U	5.0	U
Methyl acetate	930	U	4.0	U	250	U	5.0	U	5.0	U
Methylene chloride	930	U	4.0	U	250	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	930	U	4.0	U	250	U	5.0	U	5.0	U
Methyl tert-butyl ether	930	U	4.0	U	250	U	5.0	U	5.0	U
1,1-Dichloroethane	930	U	4.0	U	250	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	470	J	4.0	U	250	U	5.0	U	5.0	U
2-Butanone	1900	U	7.9	U	500	U	10	U	10	U
Bromochloromethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Chloroform	930	U	4.0	U	250	U	5.0	U	5.0	U
1,1,1-Trichloroethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Cyclohexane	930	U	4.0	U	250	U	5.0	U	5.0	U
Carbon tetrachloride	930	U	4.0	U	250	U	5.0	U	5.0	U
Benzene	220	J	4.0	U	250	U	5.0	U	5.0	U
1,2-Dichloroethane	930	U	4.0	U	250	U	5.0	U	5.0	U
1,4-Dioxane	19000	R	79	U	5000	R	100	U	100	R
Trichloroethene	20000		4.5		250	U	5.0	U	5.0	U
Methylcyclohexane	930	U	4.0	U	250	U	5.0	U	5.0	U
1,2-Dichloropropane	930	U	4.0	U	250	U	5.0	U	5.0	U
Bromodichloromethane	930	U	4.0	U	250	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	400	J	4.0	U	250	U	5.0	U	5.0	U
4-Methyl-2-pentanone	1900	U	7.9	U	500	U	10	U	10	U
Toluene	170	J	4.0	U	250	U	5.0	U	5.0	U
trans-1,3-Dichloropropene	930	U	4.0	U	250	U	5.0	U	5.0	U

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Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E2NW8ME		E2NW9		VBLK1N		VBLK2N		VBLK2X	
Sampling Location :			KB9 1-2							
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :			8/30/2006							
Time Sampled :										
%Moisture :	0		0		0		0		0	
pH :										
Dilution Factor :	4.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Tetrachloroethene	930	U	4.0	U	250	U	5.0	U	5.0	U
2-Hexanone	1900	U	7.9	U	500	U	10	U	10	U
Dibromochloromethane	930	U	4.0	U	250	U	5.0	U	5.0	U
1,2-Dibromoethane	930	U	4.0	U	250	U	5.0	U	5.0	U
Chlorobenzene	930	U	4.0	U	250	U	5.0	U	5.0	U
Ethylbenzene	930	U	4.0	U	250	U	5.0	U	5.0	U
o-Xylene	930	U	4.0	U	250	U	5.0	U	5.0	U
m,p-Xylene	930	U	4.0	U	250	U	5.0	U	5.0	U
Styrene	930	U	4.0	U	250	U	5.0	U	5.0	U
Bromoform	930	U	4.0	U	250	U	5.0	U	5.0	U
Isopropylbenzene	930	U	4.0	U	250	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	930	UJ	4.0	U	250	UJ	5.0	U	5.0	U
1,3-Dichlorobenzene	930	U	4.0	U	250	U	5.0	U	5.0	U
1,4-Dichlorobenzene	930	U	4.0	U	250	U	5.0	U	5.0	U
1,2-Dichlorobenzene	930	U	4.0	U	250	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	930	U	4.0	U	250	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	930	U	4.0	U	250	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	930	U	4.0	U	250	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	VHBLK2N									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	0									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U								
Chloromethane	5.0	U								
Vinyl chloride	5.0	U								
Bromomethane	5.0	U								
Chloroethane	5.0	U								
Trichlorofluoromethane	5.0	U								
1,1-Dichloroethene	5.0	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U								
Acetone	10	U								
Carbon disulfide	5.0	U								
Methyl acetate	5.0	U								
Methylene chloride	5.0	U								
trans-1,2-Dichloroethene	5.0	U								
Methyl tert-butyl ether	5.0	U								
1,1-Dichloroethane	5.0	U								
cis-1,2-Dichloroethene	5.0	U								
2-Butanone	10	U								
Bromochloromethane	5.0	U								
Chloroform	5.0	U								
1,1,1-Trichloroethane	5.0	U								
Cyclohexane	5.0	U								
Carbon tetrachloride	5.0	U								
Benzene	5.0	U								
1,2-Dichloroethane	5.0	U								
1,4-Dioxane	100	U								
Trichloroethene	5.0	U								
Methylcyclohexane	5.0	U								
1,2-Dichloropropane	5.0	U								
Bromodichloromethane	5.0	U								
cis-1,3-Dichloropropene	5.0	U								
4-Methyl-2-pentanone	10	U								
Toluene	5.0	U								
trans-1,3-Dichloropropene	5.0	U								

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Analytical Results (Qualified Data)

Case #: 35706 SDG : E2NW4
Site : CONTINENTAL STEEL
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	VHBLK2N									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	0									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U								
Tetrachloroethene	5.0	U								
2-Hexanone	10	U								
Dibromochloromethane	5.0	U								
1,2-Dibromoethane	5.0	U								
Chlorobenzene	5.0	U								
Ethylbenzene	5.0	U								
o-Xylene	5.0	U								
m,p-Xylene	5.0	U								
Styrene	5.0	U								
Bromoform	5.0	U								
Isopropylbenzene	5.0	U								
1,1,2,2-Tetrachloroethane	5.0	U								
1,3-Dichlorobenzene	5.0	U								
1,4-Dichlorobenzene	5.0	U								
1,2-Dichlorobenzene	5.0	U								
1,2-Dibromo-3-chloropropane	5.0	U								
1,2,4-Trichlorobenzene	5.0	U								
1,2,3-Trichlorobenzene	5.0	U								

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 19 Oct 04

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Continental Steel Corp (IN)

CASE NUMBER: 35704 SDG NUMBER: E2NW4

Number and Type of Samples: 5 soil samples

Sample Numbers: E2NW4-W6; W8-W9

Laboratory: Mitkem Corporation Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E2NW4

Laboratory Name Mitkem Corporation Lab Code MITKEM

Contract No. EP-W-05-030 Case No. 35706

Analysis Price $425 SDG Turnaround 21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E2NW4	7) E2NW9	13)	19)
2) E2NW5	8)	14)	20)
3) E2NW5MS	9)	15)	21)
4) E2NW5MSD	10)	16)	22)
5) E2NW6	11)	17)	23)
6) E2NW8	12)	18)	24)

First Sample in SDG: E2NW4

Last Sample in SDG: E2NW9

First Sample Receipt Date: 8/31/06

Last Sample Receipt Date: 8/31/06

Note: *There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature [illegible] Date 9/5/06

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

Case No: 35706
DAS No:
SDG No: E2NW4

L

Date Shipped:	8/30/2006
Carrier Name:	FedEx
Airbill:	811417266288
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	8/30/06 4:00pm	[illegible]	8-31-06 10:30
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	EP-W-05-030
Unit Price:	$425
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
01 E2NW4	Soil (>12")/ Pat Likens	M/G	CLP VOA (21)	5245001 (Ice Only), 5245002 (Ice Only), 5245003 (Ice Only) (3)	KB7	S: 8/30/2006 9:00		No % solid jar
02 E2NW5	Soil (>12")/ Pat Likens	M/G	CLP VOA (21)	5245004 (Ice Only), 5245005 (Ice Only), 5245006 (Ice Only), 5245020 (Ice Only), 5245021 (Ice Only) (5)	KB79-10	S: 8/30/2006 9:21		
03 E2NW6	Soil (>12")/ Pat Likens	M/G	CLP VOA (21)	5245007 (Ice Only), 5245008 (Ice Only), 5245009 (Ice Only) (3)	KB84-5	S: 8/30/2006 10:00		
04 E2NW7	Soil (>12")/ Pat Likens	M/G	CLP VOA (21)	5245010 (Ice Only), 5245011 (Ice Only) (2)	KB84-5B	S: 8/30/2006 10:00		
05 E2NW8	Soil (>12")/ Pat Likens	M/G	CLP VOA (21)	5245013 (Ice Only), 5245014 (Ice Only), 5245015 (Ice Only) (3)	KB8 9.5-10.5	S: 8/30/2006 11:00		
06 E2NW9	Soil (>12")/ Pat Likens	M/G	CLP VOA (21)	5245017 (Ice Only), 5245018 (Ice Only), 5245019 (Ice Only) (3)	KB9 1-2	S: 8/30/2006 11:40		

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E2NW5	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°	Chain of Custody Seal Number: 185678, 185677
Analysis Key: CLP VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

TR Number: 5-551068049-083006-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to USEPA Case # 35706 and SDG# E2NW4. Analyses were performed for six soil samples that were received on August 31, 2006. The analyses were performed under USEPA Contract # EP-W-05-030. Please note that the sample-shipping cooler received was measured at 5°C.

Please note the following issues that have been communicated via e-mails (please see e-mail correspondences): (1) only two encore vials received for E2NW7; (2) COC/TR turnaround time discrepancies; and (3) no bottle available for % moisture determination. As a result of the third issue, all of the sample concentrations were reported on wet weight basis.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis	
E2NW4	E1341-01A	LV	
E2NW4RE	E1341-01ARE	LV	
E2NW5	E1341-02A	LV	
E2NW5MS	E1341-02AM	LV	
E2NW5MSD	E1341-02AMSD	LV	
E2NW5ME	E1341-02A		MV
E2NW5MEMS	E1341-02A		MV
E2NW5MEMSD	E1341-02A		MV
E2NW6	E1341-03A	LV	
E2NW6ME	E1341-03A		MV
E2NW6MEDL	E1341-03ADL		MV
E2NW7	E1341-04A	LV	
E2NW7ME	E1341-04A		MV
E2NW7MEDL	E1341-04ADL		MV
E2NW8	E1341-05A	LV	
E2NW8ME	E1341-06A		MV
E2NW9	E1341-06A	LV	

LV = Low level Volatiles
MV = Medium level Volatiles

The analyses were performed using USEPA CLP Multi-Media, Multi-Concentration (SOM01.1) protocols. The analyses were performed with strict adherence to the SOW with the following exceptions and observations:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

2. Trace Volatile Analysis:

Trap used for instrument V1 and V2: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

cis-1,3-Dichloropropene-d4 was detected in method blanks and in samples at approximately 7.3 min. The volatile organic deuterated monitoring compound spike solution contains both the cis- and trans-1,3-dichloropropene isomers. cis-1,3-Dichloropropene-d4 is not a dueterated monitoring compound for SOM01.1, while the trans isomer is. The cis isomer is considered a laboratory artifact, and is not reported as a tentatively identified compound.

In addition, for the analysis sequence that was performed on V2 on 9/02/06, Bromoform-d was detected in the method blank and samples at 10.9 min. This peak is reported as a tentatively identified compound. Please note that this contaminant peak is not listed on Cambridge Isotope Laboratories certificate of analysis.

The following equation was used to calculate the concentration of target analytes for low level soil samples:

$$\text{Concentration } (\mu\text{g/Kg}) = \frac{(\text{Amt})(\text{DF})(\text{UF})(5)}{\left(\frac{Ws * (100 - M)}{100}\right)}$$

where: Amt = CAL – AMT on raw data
DF = Dilution factor
UF = ng unit correction factor
Ws = Weight of sample extracted (g)
M = %moisture (not decanted)

The following equation was used to calculate the concentration of target analytes for medium level soil samples:

$$\text{Conc (ug/Kg)} = \frac{(Amt)*(DF)*(UF)*((Vt + (Ws*M/100))*5000)}{Va*Ws*((100-M)/100)}$$

Where Amt = CAL – AMT on raw data
DF = Dilution factor
UF = ng unit correction factor
Ws = Weight of sample extracted (g)
M = %moisture (not decanted)
Vt = methanol extract volume in mL
Va = aliquot of methanol extract used in uL.

Per our earlier discussion, these samples (both low and medium level were reported on wet weight basis).

DMC recoveries: more than 3 DMC out in E2NW4, E2NW6, E2NW7 and E2NW8. Recoveries met the QC criteria when these samples were re-analyzed using the medium level approach for three of the samples. For E2NW4, also more than 3 DMC out in the low level re-analysis.

Matrix spike and matrix spike duplicate were performed on E2NW5. For both the low level and medium level analyses, the recovery and precision of trichloroethene could not be accurately determined due to its high concentration in the native sample.

Internal standard (IS) area counts were out in E2NW4; also out in reanalysis.
Internal standard (IS) area counts were out in E2NW6, E2NW7 and E2NW8. The IS area counts were within QC limits when these samples were re-analyzed by the medium level approach.

Please note that the following samples were re-analyzed using the medium level approach: E2NW5 and its MS/MSD, E2NW6, E2NW7 and E2NW8. In addition, the following medium level analyses were repeated at dilution: E2NW6 and E2NW7.

No manual integrations were performed.

For 1,4-dioxane and 1,4-dioxane-d8, the laboratory was unable to consistently meet the minimum average RRF of 0.0050 in both the initial calibration and calibration verifications. In our experience, this compound will not reliably achieve the SOM method performance criteria due to its high water solubility. This compound is able to be reliably analyzed as an extractable semivolatile organic compound.

No unusual observation was made for the analysis.

All of the submittals to the region are originals other than logbook pages. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. Tunes, calibration verifications and initial calibrations that are shared among several cases are photocopies indicating the location of the originals.

I certify that this Sample Data Package is in compliance with the terms and condition of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Kin Chui for ARN

Agnes Ng
CLP Project Manager
09/20/06

Agnes Ng

From: "Maruska, Gale" <gmaruska@fedcsc.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Joy Boudreau (E-mail)" <jboudreau@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Cc: "Pat Linkins (E-mail)" <plikins@idem.IN.gov>; "Carlene Thomas (E-mail)" <thomas.carlene@epa.gov>; "Howard Pham (E-mail)" <pham.howard@epa.gov>; "Warren Layne (E-mail)" <layne.warren@epa.gov>
Sent: Wednesday, September 06, 2006 12:45
Subject: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple | FINAL

Agnes,

Issue 1: The lab only received two Encores for sample E2NW7. They indicated that normally they would receive 3, two for low-level analysis and one for medium-level analysis.
Resolution Issue 2: Per Region 5, The contractor was of the understanding that only two vials were necessary for a duplicate, and that the duplicates were not blind, therefore the 2 vials instead of 3. Please note the issue in the SDG Narrative and proceed with analysis.

Issue 2: The COC/TR has a turnaround time of 21 days. The scheduling notification form has 21 days with PR.
Resolution 2: In accordance with previous direction from Region 5, the laboratory will proceed with the turnaround time indicated on the Scheduling Notification Form, note the issue in the SDG Narrative, and proceed with the analysis of the samples.

Issue 3: The lab did not receive an extra aliquot for %solid determination.

Resolution Issue 3: Per Region 5, please note this issue in the SDG Narrative and proceed with analysis.

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

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I'm checking with the mobile lab to see how they handled the same sample volumes. Please just note as you suggest and proceed. Thank you!

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Tuesday, September 05, 2006 6:10 PM
To: LIKINS, PAT
Cc: gmaruska@fedcsc.com
Subject: Fw: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple

HI Pat,

Please response to the below issue ragarding the % solids analysis.
Thanks,

Howard Pham, Chemist/CLP PO
U.S. EPA, Region 5 (SMF-4J)
77 West Jackson Blvd.
Chicago, IL. 60604
(312) 353-2310
(312) 353-9281 (fax)
pham.howard@epa.gov

----- Forwarded by Howard Pham/R5/USEPA/US on 09/05/2006 05:08 PM -----

"Maruska, Gale"
<gmaruska@fedcsc
.com>

09/05/2006 03:35 PM

To
Carlene Thomas/R5/USEPA/US@EPA,
Howard Pham/R5/USEPA/US@EPA,
Warren Layne/R5/USEPA/US@EPA

cc

Subject
FW: FW: Region 05 | Case 35706 |
Lab MITKEM | Issue Multiple

Please provide a response to the question below.

Thanks,
Gale
-----Original Message-----
From: Maruska, Gale
Sent: Tuesday, September 05, 2006 12:54 PM
To: 'Pham.Howard@epamail.epa.gov'
Subject: RE: FW: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple
Importance: High

What about the fact that the lab did not receive an extra aliquot for %solid determination? Should they juse note and proceed?

Thanks,
Gale

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Tuesday, September 05, 2006 11:41 AM
To: Maruska, Gale
Subject: Re: FW: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple

Hi Gale,

Please request the lab proceed the analyses as per Pat Likins' resolution.

Thanks,

Howard Pham, Chemist/CLP PO
U.S. EPA, Region 5 (SMF-4J)
77 West Jackson Blvd.
Chicago, IL. 60604
(312) 353-2310
(312) 353-9281 (fax)
pham.howard@epa.gov

-----Original Message-----
From: Maruska, Gale
Sent: Tuesday, September 05, 2006 10:27 AM
To: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple

Please let me know if the Region concurs with the sampler's response, also the Lab wants to know how they should proceed since they only received two Encore samples?

Thanks,
Gale

-----Original Message-----
From: LIKINS, PAT [mailto:PLIKINS@idem.IN.gov]
Sent: Monday, September 04, 2006 9:45 PM
To: Maruska, Gale
Subject: RE: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple

Mike/Gale,
The contractor was of the understanding that only two vials were necessary for a duplicate, and that our duplicates were not blind, therefore the 2 vials instead of 3.

From: Maruska, Gale [mailto:gmaruska@fedcsc.com]

Sent: Fri 9/1/2006 3:05 PM
To: LIKINS, PAT
Cc: Carlene Thomas (E-mail); 'layne.warren@epa.gov'
Subject: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple

Pat:

This is Mike Benhoff, Gale is out of the office today. Please advise on the following issues for Case 35706:

Issue 1: The lab only received two Encores for sample E2NW7. They indicated that normally they would receive 3, two for low-level analysis and one for medium-level analysis.

Issue 3: The lab did not receive an extra aliquot for %solid determination.

Issue 4: Due to laboratory issue, the soil samples in the Encores were not transferred into VOA vials. They are going to be transferred into VOA vials today.

thanks,
Mike

-----Original Message-----
From: Maruska, Gale
Sent: Friday, September 01, 2006 4:02 PM
To: Agnes Ng (E-mail); Joy Boudreau (E-mail); Kin Chiu (E-mail)
Subject: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple

Agnes:

This is Mike, Gale is out of the office today. Following is the resolution to issue 2. I will send the other issues to the Region for resolutions.

Issue 2: The COC/TR has a turnaround time of 21 days. The scheduling notification form has 21 days with PR.

Resolution 2: In accordance with previous direction from Region 5, the laboratory will proceed with the turnaround time indicated on the Scheduling Notification Form, note the issue in the SDG Narrative, and proceed with the analysis of the samples.

thanks,
Mike

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com

Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

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-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Friday, September 01, 2006 12:19 PM
To: Gale Maruska
Subject: Case 35706

Hi Gale,

We received samples yesterday. There are a couple of issues.

We only received two Encores for sample E2NW7. Normally we would receive 3, two for low-level analysis and one for medium-level analysis. How are we to proceed since we only received two Encores?

The COC/TR has a turnaround time of 21 days. The scheduling notification form has 21 days with PR. Are PRs needed for this case?

We did not receive an extra aliquot for %solid determination. How are we to proceed?

Due to laboratory issue, the soil samples in the Encores were not transferred into VOA vials. They are going to be transferred into VOA vials today.

Thanks,
Agnes Ng
CLP Project Manager
(Ph) 401-732-3400
(Fax) 401-732-3499
****
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401-732-3400

Agnes Ng

From: "Maruska, Gale" <gmaruska@fedcsc.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Joy Boudreau (E-mail)" <jboudreau@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Cc: "Pat Linkins (E-mail)" <plikins@idem.IN.gov>; "Carlene Thomas (E-mail)" <thomas.carlene@epa.gov>; "Howard Pham (E-mail)" <pham.howard@epa.gov>; "Warren Layne (E-mail)" <layne.warren@epa.gov>
Sent: Wednesday, September 06, 2006 15:42
Subject: Region 05 | Case 35706 | Lab MITKEM | Issue Laboratory problems | FINAL

Agnes,

Issue: For sample E2NW5, which is the sample designated for laboratory QC, the Lab will need to analyze this sample at medium level.

Resolution: Since the Lab is allowed to report both the low level and medium level due to analyte concentration, they will perform the MS/MSD for both low level and medium level on sample E2NW5. Per Region 5, this is acceptable. Please note the issue in the SDG Narrative and proceed with analysis.

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

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-----Original Message-----
From: Thomas.Carlene@epamail.epa.gov
Sent: Wednesday, September 06, 2006 3:22 PM
To: Maruska, Gale
Subject: Re: FW: Region 05 | Case 35706 | Lab MITKEM | Issue Laboratory proble ms

Yes, please proceed

-----Original Message-----
From: Maruska, Gale
Sent: Wednesday, September 06, 2006 3:17 PM
To: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)

Subject: FW: Region 05 | Case 35706 | Lab MITKEM | Issue Laboratory problems

Please advise for the issue below.

-----Original Message-----

From: Agnes Ng [mailto:ang@mitkem.com]

Sent: Wednesday, September 06, 2006 3:17 PM

To: Maruska, Gale

Subject: Re: Region 05 | Case 35706 | Lab MITKEM | Issue Multiple |

FINAL

Hi Gale,

Is there a resolution for the MS/MSD issue yet?

Thanks,

Agnes

-----Original Message-----
From: Maruska, Gale
Sent: Wednesday, September 06, 2006 9:23 AM
To: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: FW: Region 05 | Case 35706 | Lab MITKEM | Issue Laboratory problems

Is this acceptable to the Region?

Thanks,
Gale
-----Original Message-----
From: LIKINS, PAT [mailto:PLIKINS@idem.IN.gov]
Sent: Wednesday, September 06, 2006 6:29 AM
To: Maruska, Gale
Subject: RE: Region 05 | Case 35706 | Lab MITKEM | Issue Laboratory problems

Yes, that is acceptable, the levels we've seen for those areas in screening
and mobile lab results indicate that will be the appropriate level to
observe.

From: Maruska, Gale [mailto:gmaruska@fedcsc.com]
Sent: Tuesday, September 05, 2006 4:50 PM
To: LIKINS, PAT
Cc: Carlene Thomas (E-mail); Howard Pham (E-mail); Warren Layne (E-mail)
Subject: Region 05 | Case 35706 | Lab MITKEM | Issue Laboratory problems

Pat,

MITKEM has reported the following issue for Case 35706:

Since the Lab did not receive enough sample to perform laboratory QC for any of the other samples, this is what they are proposing to do.

Issue: For sample E2NW5, which is the sample designated for laboratory QC, the Lab will need to analyze this sample at medium level. Since the Lab is allowed to report both the low level and medium level due to analyte concentration, they will perform the MS/MSD for both low level and medium level on sample E2NW5.

Is this acceptable?

Thanks,

Gale

-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Tuesday, September 05, 2006 4:39 PM
To: Maruska, Gale
Subject: Re: Case 35706

Hi Gale,

Since we did not receive enough sample to perform laboratory QC for any of the other samples, this is what we are proposing to do.

For sample E2NW5, which is the sample designated for laboratory QC, we will need to analyze this sample at medium level. Since we are allowed to report both the low level and medium level due to analyte concentration, we will perform the MS/MSD for both low level and medium level on sample E2NW5.

Please let me know if this is acceptable for the Region.

Thanks,

Agnes

----- Original Message -----

From: Maruska, Gale

To: 'Agnes Ng'

Sent: Tuesday, September 05, 2006 15:32

Subject: RE: Case 35706

Agnes,

Please let me know which sample the Lab would like to use for QC and please let me know if the sample selected has sufficient volume.

Thanks,

Gale

-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Tuesday, September 05, 2006 3:19 PM
To: Gale Maruska
Subject: Fw: Case 35706

I sent this to Beth by accident.

Hi Beth,

Samples E2NW5, E2NW6, E2NW7 and E2NW8 need to be analyzed at dilution by the medium level approach. Laboratory QC is designated on sample E2NW5. Since this samples requires medium level analysis, the MS/MSD will be performed on this sample for medium level.

Samples E2NW4 and E2NW9 will need to be re-analyzed at low level.

I need another sample for laboratory QC for the low-level sample analyses.
We do not have enough sample for samples E2NW4 and E2NW9 for the low level analysis laboratory QC.

How are we to proceed?

Based on the scheduling notification form, PRs are required for this case, which means they need to be submitted today.

Thanks,

Agnes

2C - FORM II VOA-3

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC1 (VCL)	#	VDMC2 (CLA)	#	VDMC3 (DCE)	#	VDMC4 (BUT)	#	VDMC5 (CLF)	#	VDMC6 (DCA)	#	VDMC7 (BEN)	#
01	VBLK2X	99		84		85		103		103		94		111	
02	E2NW5	95		84		82		106		104		99		118	
03	E2NW5MS	98		84		99		102		105		99		119	
04	E2NW5MSD	94		78		95		102		105		101		111	
05	E2NW4	99		104		82		138		120		127	*	145	*
06	E2NW6	83		85		71		148		101		134	*	127	*
07	E2NW7	102		111		85		132		121		139	*	150	*
08	E2NW8	74		86		73		153		129	*	146	*	147	*
09	VBLK2N	93		103		87		119		108		110		102	
10	E2NW9	91		102		85		131		108		112		105	
11	E2NW4RE	103		116		89		121		117		130	*	154	*
12	VHBLK2N	84		92		74		95		110		113		102	

			QC LIMITS
VDMC1	(VCL)	= Vinyl chloride-d3	(68-122)
VDMC2	(CLA)	= Chloroethane-d5	(61-130)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(45-132)
VDMC4	(BUT)	= 2-Butanone-d5	(20-182)
VDMC5	(CLF)	= Chloroform-d	(72-123)
VDMC6	(DCA)	= 1,2-Dichloroethane-d4	(79-122)
VDMC7	(BEN)	= Benzene-d6	(80-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Level: (LOW/MED) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK2X	97	99	101	93	94	108	93	0
02	E2NW5	102	105	108	99	102	114	96	0
03	E2NW5MS	104	104	108	95	95	115	93	0
04	E2NW5MSD	97	98	105	93	103	116	98	0
05	E2NW4	136 *	111	127	133	163 *	141	99	4
06	E2NW6	125 *	102	137 *	139	157 *	148	103	5
07	E2NW7	145 *	112	133 *	154	200 *	136	96	5
08	E2NW8	151 *	116	155 *	153	180 *	146	90	6
09	VBLK2N	93	100	107	111	111	111	103	0
10	E2NW9	98	104	112	123	142	121	103	0
11	E2NW4RE	143 *	123 *	137 *	152	208 *	125	103	6
12	VHBLK2N	95	98	106	93	95	105	103	0

			QC LIMITS
VDMC8	(DPA)	= 1,2-Dichloropropane-d6	(74-124)
VDMC9	(TOL)	= Toluene-d8	(78-121)
VDMC10	(TDP)	= trans-1,3-Dichloropropene-d4	(72-130)
VDMC11	(HEX)	= 2-Hexanone-d5	(17-184)
VDMC12	(DXE)	= 1,4-Dioxane-d8	(50-150)
VDMC13	(TCA)	= 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14	(DCZ)	= 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2C - FORM II VOA-3

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Level: (LOW/MED) MED

	EPA SAMPLE NO.	VDMC1 (VCL)	#	VDMC2 (CLA)	#	VDMC3 (DCE)	#	VDMC4 (BUT)	#	VDMC5 (CLF)	#	VDMC6 (DCA)	#	VDMC7 (BEN)	#
01	VBLK1N	89		104		80		83		99		91		97	
02	E2NW5ME	92		23	*	80		83		98		94		94	
03	E2NW5MEMS	82		26	*	81		99		99		99		91	
04	E2NW8ME	96		67		82		84		99		94		98	
05	E2NW7ME	94		79		80		93		102		97		100	
06	E2NW6ME	103		88		88		94		102		95		102	
07	E2NW7MEDL	94		92		83		94		100		95		99	
08	E2NW6MEDL	106		108		92		100		107		103		106	
09	E2NW5MEMSD	94		22	*	91		93		100		94		97	

			QC LIMITS
VDMC1	(VCL)	= Vinyl chloride-d3	(68-122)
VDMC2	(CLA)	= Chloroethane-d5	(61-130)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(45-132)
VDMC4	(BUT)	= 2-Butanone-d5	(20-132)
VDMC5	(CLF)	= Chloroform-d	(72-123)
VDMC6	(DCA)	= 1,2-Dichloroethane-d4	(79-122)
VDMC7	(BEN)	= Benzene-d6	(80-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2D - FORM II VOA-4

SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Level: (LOW/MED) MED

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK1N	95	96	103	93	104	113	94	0
02	E2NW5ME	94	94	98	88	100	112	98	1
03	E2NW5MEMS	96	91	102	100	128	123	95	1
04	E2NW8ME	98	99	104	96	82	120	97	0
05	E2NW7ME	102	101	106	103	103	125	98	0
06	E2NW6ME	97	101	106	101	116	123	101	0
07	E2NW7MEDL	99	99	105	104	122	126	97	0
08	E2NW6MEDL	106	106	115	111	130	143	104	0
09	E2NW5MEMSD	96	98	102	96	124	120	99	1

			QC LIMITS
VDMC8	(DPA)	= 1,2-Dichloropropane-d6	(74-124)
VDMC9	(TOL)	= Toluene-d8	(78-121)
VDMC10	(TDP)	= trans-1,3-Dichloropropene-d4	(72-130)
VDMC11	(HEX)	= 2-Hexanone-d5	(17-184)
VDMC12	(DXE)	= 1,4-Dioxane-d8	(50-150)
VDMC13	(TCA)	= 1,1,2,2-Tetrachloroethane-d2	(56-161)
VDMC14	(DCZ)	= 1,2-Dichlorobenzene-d4	(70-131)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix Spike - EPA Sample No.: E2NW5 Level: (LOW/MED) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS %REC	#	QC. LIMITS REC.
1,1-Dichloroethene	45.4545	0.0000	58.1870	128		59-172
Benzene	45.4545	0.0000	63.2509	139		66-142
Trichloroethene	45.4545	825.0041	930.7128	233	*	62-137
Toluene	45.4545	0.0000	56.0350	123		59-139
Chlorobenzene	45.4545	0.0000	48.9479	108		60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	45.4545	53.0011	117		9		0-22	59-172
Benzene	45.4545	54.9633	121		14		0-21	66-142
Trichloroethene	45.4545	781.5348	-96	*	479	*	0-24	62-137
Toluene	45.4545	50.0555	110		11		0-21	59-139
Chlorobenzene	45.4545	45.2478	100		8		0-21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1N

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Lab File ID: V1H8452.D Lab Sample ID: MB-25800

Instrument ID: V1

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 09/08/2006

Level: (TRACE or LOW/MED) MED Time Analyzed: 11:11

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2NW5ME	E1341-02A	V1H8453.D	11:49
02	E2NW5MEMS	E1341-02AMS	V1H8454.D	12:25
03	E2NW8ME	E1341-05A	V1H8456.D	13:17
04	E2NW7ME	E1341-04A	V1H8457.D	13:43
05	E2NW6ME	E1341-03A	V1H8458.D	14:28
06	E2NW7MEDL	E1341-04ADL	V1H8460.D	15:21
07	E2NW6MEDL	E1341-03ADL	V1H8461.D	15:47
08	E2NW5MEMSD	E1341-02AMSD	V1H8462.D	16:14

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2X

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Lab File ID: V2H7942.D Lab Sample ID: MB-25702

Instrument ID: V2

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 09/02/2006

Level: (TRACE or LOW/MED) LOW Time Analyzed: 10:55

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2NW5	E1341-02A	V2H7943.D	11:36
02	E2NW5MS	E1341-02AMS	V2H7944.D	12:05
03	E2NW5MSD	E1341-02AMSD	V2H7945.D	12:34
04	E2NW4	E1341-01A	V2H7947.D	13:32
05	E2NW6	E1341-03A	V2H7948.D	14:01
06	E2NW7	E1341-04A	V2H7950.D	14:59
07	E2NW8	E1341-05A	V2H7951.D	15:29

COMMENTS:

SOM01.1 (5/2003) 0014

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2N

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Lab File ID: V2H8126.D Lab Sample ID: MB-25813

Instrument ID: V2

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 09/08/2006

Level: (TRACE or LOW/MED) LOW Time Analyzed: 14:29

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2NW9	E1341-06A	V2H8127.D	15:27
02	E2NW4RE	E1341-01ARA	V2H8128.D	15:55
03	VHBLK2N	VHBLK2N	V2H8129.D	18:50

COMMENTS:

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW4

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-01A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V2H7947.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/02/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.6	U
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
67-64-1	Acetone	11	U
75-15-0	Carbon disulfide	5.6	U
79-20-9	Methyl acetate	5.6	U
75-09-2	Methylene chloride	4.4	J
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
110-82-7	Cyclohexane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
71-43-2	Benzene	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
123-91-1	1,4-Dioxane	110	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW4

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-01A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V2H7947.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/02/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	110	
108-87-2	Methylcyclohexane	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U
179601-23-1	m,p-Xylene	5.6	U
95-47-6	o-Xylene	5.6	U
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	U

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

EPA SAMPLE NO.
E2NW4

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-01A

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V2H7947.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/02/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.913	22	~~BJ~~ U
	E966796[1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

10-10-06

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW4RE

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-01ARA

Sample wt/vol: 3.00 (g/mL) G Lab File ID: V2H8128.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/08/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	8.3	U
74-87-3	Chloromethane	8.3	U
75-01-4	Vinyl chloride	8.3	U
74-83-9	Bromomethane	8.3	U
75-00-3	Chloroethane	8.3	U
75-69-4	Trichlorofluoromethane	8.3	U
75-35-4	1,1-Dichloroethene	8.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.3	U
67-64-1	Acetone	17	U
75-15-0	Carbon disulfide	8.3	U
79-20-9	Methyl acetate	8.3	U
75-09-2	Methylene chloride	8.3	U
156-60-5	trans-1,2-Dichloroethene	8.3	U
1634-04-4	Methyl tert-butyl ether	8.3	U
75-34-3	1,1-Dichloroethane	8.3	U
156-59-2	cis-1,2-Dichloroethene	8.3	U
78-93-3	2-Butanone	17	U
74-97-5	Bromochloromethane	8.3	U
67-66-3	Chloroform	8.3	U
71-55-6	1,1,1-Trichloroethane	8.3	U
110-82-7	Cyclohexane	8.3	U
56-23-5	Carbon tetrachloride	8.3	U
71-43-2	Benzene	8.3	U
107-06-2	1,2-Dichloroethane	8.3	U
123-91-1	1,4-Dioxane	170	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW4RE

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-01ARA

Sample wt/vol: 3.00 (g/mL) G Lab File ID: V2H8128.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/08/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	150	
108-87-2	Methylcyclohexane	8.3	U
78-87-5	1,2-Dichloropropane	8.3	U
75-27-4	Bromodichloromethane	8.3	U
10061-01-5	cis-1,3-Dichloropropene	8.3	U
108-10-1	4-Methyl-2-pentanone	17	U
108-88-3	Toluene	8.3	U
10061-02-6	trans-1,3-Dichloropropene	8.3	U
79-00-5	1,1,2-Trichloroethane	8.3	U
127-18-4	Tetrachloroethene	8.3	U
591-78-6	2-Hexanone	17	U
124-48-1	Dibromochloromethane	8.3	U
106-93-4	1,2-Dibromoethane	8.3	U
108-90-7	Chlorobenzene	8.3	U
100-41-4	Ethylbenzene	8.3	U
179601-23-1	m,p-Xylene	8.3	U
95-47-6	o-Xylene	8.3	U
100-42-5	Styrene	8.3	U
75-25-2	Bromoform	8.3	U
98-82-8	Isopropylbenzene	8.3	U
79-34-5	1,1,2,2-Tetrachloroethane	8.3	U
541-73-1	1,3-Dichlorobenzene	8.3	U
106-46-7	1,4-Dichlorobenzene	8.3	U
95-50-1	1,2-Dichlorobenzene	8.3	U
96-12-8	1,2-Dibromo-3-chloropropane	8.3	U
120-82-1	1,2,4-Trichlorobenzene	8.3	U
87-61-6	1,2,3-Trichlorobenzene	8.3	U

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

EPA SAMPLE NO.
E2NW4RE

Lab Name: MITKEM CORPORATION
Contract: EP-W-05-030
Lab Code: MITKEM
Case No.: 35706
Mod. Ref No.:
SDG No.: E2NW4
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: E1341-01ARA
Sample wt/vol: 3.00 (g/mL) G
Lab File ID: V2H8128.D
Level: (TRACE or LOW/MED) LOW
Date Received: 08/31/2006
% Moisture: not dec. 0.0
Date Analyzed: 09/08/2006
GC Column: DB-624
ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: (uL)
Soil Aliquot Volume: (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.098	12	J
02		Unknown-02	11.627	110	J
03	127-91-3	.beta.-Pinene	11.919	18	NJ
04	554-61-0	Bicyclo[4.1.0]hept-2-ene, 3,7,7-t	13.433	14	NJ
	E966796 [1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW5

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-02A

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V2H7943.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/02/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4.5	U
74-87-3	Chloromethane	4.5	U
75-01-4	Vinyl chloride	4.5	U
74-83-9	Bromomethane	4.5	U
75-00-3	Chloroethane	4.5	U
75-69-4	Trichlorofluoromethane	4.5	U
75-35-4	1,1-Dichloroethene	4.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.5	U
67-64-1	Acetone	8.9	U
75-15-0	Carbon disulfide	4.5	U
79-20-9	Methyl acetate	4.5	U
75-09-2	Methylene chloride	4.5	U
156-60-5	trans-1,2-Dichloroethene	4.5	U
1634-04-4	Methyl tert-butyl ether	4.5	U
75-34-3	1,1-Dichloroethane	4.5	U
156-59-2	cis-1,2-Dichloroethene	150	E
78-93-3	2-Butanone	8.9	U
74-97-5	Bromochloromethane	4.5	U
67-66-3	Chloroform	4.5	U
71-55-6	1,1,1-Trichloroethane	4.5	U
110-82-7	Cyclohexane	4.5	U
56-23-5	Carbon tetrachloride	4.5	U
71-43-2	Benzene	4.5	U
107-06-2	1,2-Dichloroethane	4.5	U
123-91-1	1,4-Dioxane	89	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW5

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-02A

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V2H7943.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/02/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	830	E
108-87-2	Methylcyclohexane	4.5	U
78-87-5	1,2-Dichloropropane	4.5	U
75-27-4	Bromodichloromethane	4.5	U
10061-01-5	cis-1,3-Dichloropropene	4.5	U
108-10-1	4-Methyl-2-pentanone	8.9	U
108-88-3	Toluene	4.5	U
10061-02-6	trans-1,3-Dichloropropene	4.5	U
79-00-5	1,1,2-Trichloroethane	4.5	U
127-18-4	Tetrachloroethene	4.5	U
591-78-6	2-Hexanone	8.9	U
124-48-1	Dibromochloromethane	4.5	U
106-93-4	1,2-Dibromoethane	4.5	U
108-90-7	Chlorobenzene	4.5	U
100-41-4	Ethylbenzene	4.5	U
179601-23-1	m,p-Xylene	4.5	U
95-47-6	o-Xylene	4.5	U
100-42-5	Styrene	4.5	U
75-25-2	Bromoform	4.5	U
98-82-8	Isopropylbenzene	4.5	U
79-34-5	1,1,2,2-Tetrachloroethane	4.5	U
541-73-1	1,3-Dichlorobenzene	4.5	U
106-46-7	1,4-Dichlorobenzene	4.5	U
95-50-1	1,2-Dichlorobenzene	4.5	U
96-12-8	1,2-Dibromo-3-chloropropane	4.5	U
120-82-1	1,2,4-Trichlorobenzene	4.5	U
87-61-6	1,2,3-Trichlorobenzene	4.5	U

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

EPA SAMPLE NO.
E2NW5

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-02A

Sample wt/vol: 5.60 (g/mL) G Lab File ID: V2H7943.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/02/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.905	15	~~B~~ U
	E966796 [1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

ST
10-10-05

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW5ME

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-02A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1H8453.D

Level: (TRACE/LOW/MED) MED Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/08/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 0.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	230	U
74-87-3	Chloromethane	230	U
75-01-4	Vinyl chloride	230	U
74-83-9	Bromomethane	230	U
75-00-3	Chloroethane	230	U
75-69-4	Trichlorofluoromethane	230	U
75-35-4	1,1-Dichloroethene	230	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	230	U
67-64-1	Acetone	450	U
75-15-0	Carbon disulfide	230	U
79-20-9	Methyl acetate	230	U
75-09-2	Methylene chloride	230	U
156-60-5	trans-1,2-Dichloroethene	230	U
1634-04-4	Methyl tert-butyl ether	230	U
75-34-3	1,1-Dichloroethane	230	U
156-59-2	cis-1,2-Dichloroethene	200	J
78-93-3	2-Butanone	310	J
74-97-5	Bromochloromethane	230	U
67-66-3	Chloroform	26	J
71-55-6	1,1,1-Trichloroethane	230	U
110-82-7	Cyclohexane	230	U
56-23-5	Carbon tetrachloride	230	U
71-43-2	Benzene	230	U
107-06-2	1,2-Dichloroethane	230	U
123-91-1	1,4-Dioxane	4500	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW5ME

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 35706 Mod. Ref No.: SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: E1341-02A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1H8453.D

Level: (TRACE/LOW/MED) MED Date Received: 08/31/2006

% Moisture: not dec. 0.0 Date Analyzed: 09/08/2006

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 0.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	2400	
108-87-2	Methylcyclohexane	230	U
78-87-5	1,2-Dichloropropane	230	U
75-27-4	Bromodichloromethane	230	U
10061-01-5	cis-1,3-Dichloropropene	230	U
108-10-1	4-Methyl-2-pentanone	450	U
108-88-3	Toluene	230	U
10061-02-6	trans-1,3-Dichloropropene	230	U
79-00-5	1,1,2-Trichloroethane	230	U
127-18-4	Tetrachloroethene	23	J
591-78-6	2-Hexanone	450	U
124-48-1	Dibromochloromethane	230	U
106-93-4	1,2-Dibromoethane	230	U
108-90-7	Chlorobenzene	230	U
100-41-4	Ethylbenzene	230	U
179601-23-1	m,p-Xylene	230	U
95-47-6	o-Xylene	230	U
100-42-5	Styrene	230	U
75-25-2	Bromoform	230	U
98-82-8	Isopropylbenzene	230	U
79-34-5	1,1,2,2-Tetrachloroethane	230	U
541-73-1	1,3-Dichlorobenzene	230	U
106-46-7	1,4-Dichlorobenzene	230	U
95-50-1	1,2-Dichlorobenzene	230	U
96-12-8	1,2-Dibromo-3-chloropropane	230	U
120-82-1	1,2,4-Trichlorobenzene	230	U
87-61-6	1,2,3-Trichlorobenzene	230	U

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

EPA SAMPLE NO.
E2NW5ME

Lab Name: MITKEM CORPORATION
Contract: EP-W-05-030
Lab Code: MITKEM
Case No.: 35706
Mod. Ref No.:
SDG No.: E2NW4
Matrix: (SOIL/SED/WATER) SOIL
Lab Sample ID: E1341-02A
Sample wt/vol: 5.50 (g/mL) G
Lab File ID: V1H8453.D
Level: (TRACE or LOW/MED) MED
Date Received: 08/31/2006
% Moisture: not dec. 0.0
Date Analyzed: 09/08/2006
GC Column: DB-624
ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: 5000 (uL)
Soil Aliquot Volume: 0.00 (uL)
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG
Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E2NW5MS

Lab Name: MITKEM CORPORATION

Contract: EP-W-05-030

Lab Code: MITKEM

Case No.: 35706

Mod. Ref No.:

SDG No.: E2NW4

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: E1341-02AMS

Sample wt/vol: 5.50 (g/mL) G

Lab File ID: V2H7944.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/31/2006

% Moisture: not dec. 0.0

Date Analyzed: 09/02/2006

GC Column: DB-624

ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4.5	U
74-87-3	Chloromethane	4.5	U
75-01-4	Vinyl chloride	4.5	U
74-83-9	Bromomethane	4.5	U
75-00-3	Chloroethane	4.5	U
75-69-4	Trichlorofluoromethane	4.5	U
75-35-4	1,1-Dichloroethene	58	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.5	U
67-64-1	Acetone	9.1	U
75-15-0	Carbon disulfide	4.5	U
79-20-9	Methyl acetate	4.5	U
75-09-2	Methylene chloride	4.5	U
156-60-5	trans-1,2-Dichloroethene	4.5	U
1634-04-4	Methyl tert-butyl ether	4.5	U
75-34-3	1,1-Dichloroethane	4.5	U
156-59-2	cis-1,2-Dichloroethene	160	E
78-93-3	2-Butanone	9.1	U
74-97-5	Bromochloromethane	4.5	U
67-66-3	Chloroform	4.5	U
71-55-6	1,1,1-Trichloroethane	4.5	U
110-82-7	Cyclohexane	4.5	U
56-23-5	Carbon tetrachloride	4.5	U
71-43-2	Benzene	63	
107-06-2	1,2-Dichloroethane	4.5	U
123-91-1	1,4-Dioxane	91	U