UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MD 20755-5350

ORIGINAL

SDMS DocID 2209990

DATE : December 23, 2002

SUBJECT: Region III Data QA Review

FROM : Fredrick Foreman
Region III ESAT RPO (3ES20)

TO : Lorie Baker
Regional Project Manager (3HS34)

Attached is the organic data validation report for the Elkton Farm site (Case #: 31029, SDG#: C00P7, C00Q8, C00R5) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me at (410) 305-2629.

Attachments

cc: Alex Cox (MDE)

TO File #: 0007 TDF#: 1120

OFFICE OF ANALYTICAL SERVICES AND QUALITY ASSURANCE

Lockheed Martin Environmental Services
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

LOCKHEED MARTIN

DATE: December 19, 2002

SUBJECT: Level M3 Organic Data Validation for RAS Case 31029
SDGs: C00P7, C00Q8, C00R5
Site: Elkton Farm

FROM: Hoang Nguyen
Organic Data Reviewer

Mahboobeh Mecanic
Senior Organic Data Reviewer

TO: Fredrick Foreman
ESAT Regional Project Officer

OVERVIEW

Case 31029, Sample Delivery Groups (SDGs) C00P7, C00Q8 and C00R5, from the Elkton Farm site submitted to Ceimic Corp. (CEIMIC) consisted of seven (7) aqueous and thirty (30) soil samples for volatile, semivolatile and pesticide/PCP analyses. The sample set included one (1) trip blank and three (3) field duplicate pairs. The trip blank was analyzed solely for volatile compounds. All samples were analyzed according to Contract Laboratory Program (CLP) Statement of Work (SOW) OLM04.2 through Routine Analytical Services (RAS) program.

SUMMARY

Data were validated according to Region III Modifications to the National Functional Guidelines for Organic Data Review, Level M3. All samples were successfully analyzed for all target compounds except for those qualified "R". The volatile trip blank C00Q2 was not received by the laboratory for analysis; therefore, no data were available for review.

Aroclor 1254 was detected in pesticide/PCB sample C00R0 (SDG C00Q8). In pesticide/PCB analyses, where multi-component compounds are present, false positives for single component compounds are common. Caution should be exercised in interpreting positive PCB results in this sample.

MAJOR PROBLEM

- The Response Factor (RF) was less than 0.05 for 1,2-dibromo-3-chloropropane in both initial and continuing volatile calibrations for this case. No positive results were reported for this compound. Quantitation limit for 1,2-dibromo-3- chloropropane was rejected and qualified "R" in all samples. See Data Summary Forms (DSFs) in Appendix B.

MINOR PROBLEMS

- Sample C00R5 for pesticide/PCB and semivolatile fractions arrived at the laboratory in a cooler measured at 21 °C, seven (7) days after collection. Positive results reported in this sample for the affected fractions were qualified "J" and quantitation limits for all compounds were qualified "UJ" on DSFs.

- Several compounds failed precision criteria [Percent Relative Standard Deviation (%RSD) and/or Percent Difference (%D)] in the volatile and semivolatile initial and/or continuing calibrations. Positive results for these compounds were qualified "J" unless superseded by "B" on DSFs. Quantitation limit for compounds with %RSD or %D greater than 50% were qualified "UJ" in affected samples.

- Pesticide/PCB samples C00S9 (SDG C00Q8) and C00T2 (SDG C00R5) reported recovery of surrogate TCX outside the lower QC limit on both columns. Positive results reported in these samples were qualified "J" and quantitation limits were qualified "UJ"on DSFs.

- Positive results for pesticide/PCB compounds with percent differences (%D) greater than twenty-five percent (>25%) between the two analytical columns were qualified "J" on DSFs.

NOTES

- Maximum concentrations of target compounds found in analyses of samples' associated trip, method and storage blanks are listed below. Only compounds used to qualify data are listed. Samples with concentrations of common laboratory contaminants less than ten times (≤10X) blank concentration or with concentrations of other contaminants less than five times (<5X) blank concentration have been qualified "B". have been qualified "B".

Blank	Compound	Concentration	Affected Samples
Method (VBLKQM) SDG C00Q8	acetone*	2 J (ug/kg)	C00S1, C00S2, C00S3, C00S9, C00T8
Storage (VHBLK01) SDG C00Q8	methylene chloride*	14 B (ug/L)	All samples in SDG C00Q8
Method (VBLKQP) SDG C00R5	methylene chloride*	18 (ug/kg)	C00R5, C00R6, C00R8, C00S0, C00S6, C00S8, C00T2, C00T4
Method (VBLKQQ) SDG C00R5	methylene chloride*	16 J (ug/kg)	C00T6, C00T9
Method (SBLKAA) SDGs C00Q8 and C00R5	bis(2-ethylhexyl)phthalate*	93 J (ug/kg)	C00R1, C00R6, C00S0, C00S6, C00S8, C00T2, C00T4, C00T6, C00T9
Method (SBLKAZ) SDG C00Q8	bis(2-ethylhexyl)phthalate*	71 J (ug/kg)	C00Q5, C00Q7, C00Q9, C00R2, C00R4, C00R7, C00S9

Method (SBLKIZ) SDG C00Q8	bis(2-ethylhexyl)phthalate*	100	J (ug/kg)	C00R0, C00S1, C00S2, C00S3, C00S5

* common laboratory contaminant

- Semivolatile samples C00S4, (SDG C00Q8) and C00R5 (SDG C00R5) and pesticide/PCB sample C00Q9 (SDG C00Q8) were initially analyzed diluted as listed below based on screening results, extract color or viscosity. As a result, quantitation limits for these three (3) samples are elevated.

	Sample	Fraction	Dilution Factors
SDG C00Q8	C00S4	BNA	5X
SDG C00R5	C00R5	BNA	10X
SDG C00Q8	C00Q9	PEST/PCB	10X

- Pesticide/PCB sample C00Q9 (SDG C00Q8) was re-analyzed diluted at one hundred-fold (100X) in order to quantitate 4,4'-DDT which had exceeded the calibration curve in the original analysis. The result for this compound was reported from the diluted analysis and annotated with a symbol "+" on DSFs.

- Pesticide/PCB samples C00R0 (SDG C00Q8) reported recovery of surrogate TCX outside the upper QC limit on one analytical column. No data were qualified in this sample based on the single surrogate recovery outlier.

- Pesticide/PCB soil samples C00Q8, C00Q9, C00R0, C00R2, C00R4, C00R7, C00S1, C00S2, C00S3, C00S4, C00S5, C00S9, C00T3, C00T5 and C00T8 (SDG C00Q8) were extracted one (1) day outside the aqueous extraction holding time of seven (7) days from collection. Due to the thermal stability of pesticide/PCB compounds in soil matrix, no data were qualified based on holding time exceedance in these samples.

- The MS/MSD analyses of semivolatile aqueous sample C00P9 (SDG C00P7) both reported recoveries of spike compound 4-nitrophenol outside upper QC limit. No data were qualified based on this QC outlier.

- The MS/MSD analyses of semivolatile soil sample C00R1 (SDG C00Q8) reported recovery of spike compound n-nitroso-di-n- propylamine outside lower QC limit in the MSD analysis and the relative percent differences (RPDs) of spike compounds phenol and acenaphthene outside QC limits. No data were qualified based on these QC outliers.

- The MS/MSD analyses of semivolatile soil sample C00S0 (SDG C00R5) reported the RPD of spike compound acenaphthene outside the QC limit. No data were qualified based on this QC outlier.

- Instrument blank PIBLK0T/1T was analyzed forty-four (44) minutes after the twelve (12) hours limit following the preceding instrument blank PIBLK0S/1S for SDG C00Q8. No data were qualified based on this infraction.

- Non-spiked compounds, other than blank contaminants, were detected in volatile, semivolatile, pesticide/PCB samples and/or their MS/MSD analyses as listed below. Units for all samples are

in ug/Kg except for sample C00P9 which are in ug/L.

Compound	C00P9	C00P9MS	C00P9MSD	%RSD
acetone	2 J	ND	ND	IN
di-n-butylphthalate	ND	4 J	ND	IN
bis(2-ethylhexyl)phthalate	1 J	ND	ND	IN

Compound	C00R1	C00R1MS	C00R1MSD	%RSD
alpha-BHC	ND	2.9 J	2.7	7++
endrin aldehyde	4 J	5.6 J	4.2	19
toxaphene	160 J	260	150 J	32

Compound	C00S0	C00S0MS	C00S0MSD	%RSD
acetone	29 J	34	23 J	19
alpha-BHC	4.5	4.3	4.9	7

%RSD = Percent Relative Standard Deviation
++ = Relative Percent Difference
IN = Indeterminate; ND = Not Detected

- Tentatively Identified Compounds (TICs) were reviewed during data validation. In addition, identifications of several TICs were changed to "unknown dimethyl naphthalene" when the compound was identified as a certain dimethyl naphthalene isomer in a sample. TIC Form Is for samples with TICs reported are included in Appendix C.

- Sample weights other than 5 grams for volatile analysis or 30 grams for semivolatile and pesticide/PCB analysis were accounted for in dilution factor listed on DSFs.

- Encore containers were not used in the collection of volatile samples for this Case.

- Compounds detected below CRQLs were qualified "J", except when superseded by "B". See DSFs in Appendix B.

All data for Case 31029, SDGs C00P7, C00Q8 and C00R5 were reviewed in accordance with Region III Modifications to the National Functional Guidelines for Organic Data Review, September 1994.

ATTACHMENTS

1) Appendix A Glossary of Data Qualifier Codes
2) Appendix B Data Summary Forms
3) Appendix C Tentatively Identified Compounds
4) Appendix D Chain-of-Custody Records
5) Appendix E Laboratory Case Narrative

DCN: 31029.wpd

Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION

(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION

(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

Appendix B

Data Summary Forms

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00P7
ELKTON FARMS
CEIMIC

Number of Soil Samples : 0
Number of Water Samples : 7

Sample Number :		C00P6		C00P7		C00P8		C00P9		C00Q0	
Sampling Location :		SW1		SW2		SW3		SW4		SW5	
Field QC:				Dup. (C00Q1)							
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		10/09/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		09:25		13:25		11:15		10:40		09:50	
pH :		1		1		1		1		1	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10										
*Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
*1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10							2	J		
Carbon Disulfide	10										
Methyl Acetate	10										
*Methylene Chloride	10										
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
*2-Butanone	10										
Chloroform	10										
*1,1,1-Trichloroethane	10										
Cyclohexane	10										
*Carbon Tetrachloride	10										
*Benzene	10										
*1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
*1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
*Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
*Tetrachloroethene	10										

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00P7
ELKTON FARMS
CEIMIC

Sample Number :		C00P6		C00P7		C00P8		C00P9		C00Q0	
Sampling Location :		SW1		SW2		SW3		SW4		SW5	
Field QC:				Dup. (C00Q1)							
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		10/09/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		09:25		13:25		11:15		10:40		09:50	
pH :		1		1		1		1		1	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
*Chlorobenzene	10										
*Ethylbenzene	10										
Xylenes (total)	10										
*Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
*1,3-Dichlorobenzene	10										
*1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R		R		R		R
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00P7
ELKTON FARMS
CEIMIC

Sample Number :		C00Q1		C00Q3							
Sampling Location :		SW6		SW8							
Field QC:		Dup. (C00P7)		Trip Blank							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		10/08/2002		10/09/2002							
Time Sampled :		13:30		12:55							
pH :		1		1							
Dilution Factor :		1.0		1.0							
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10										
Chloromethane	10			2	J						
*Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
*1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10										
Carbon Disulfide	10										
Methyl Acetate	10										
*Methylene Chloride	10										
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10										
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
*2-Butanone	10										
Chloroform	10										
*1,1,1-Trichloroethane	10										
Cyclohexane	10										
*Carbon Tetrachloride	10										
*Benzene	10										
*1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
*1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
*Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
*Tetrachloroethene	10										

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00P7
ELKTON FARMS
CEIMIC

Sample Number :		C00Q1		C00Q3							
Sampling Location :		SW6		SW8							
Field QC:		Dup. (C00P7)		Trip Blank							
Matrix :		Water		Water							
Units :		ug/L		ug/L							
Date Sampled :		10/08/2002		10/09/2002							
Time Sampled :		13:30		12:55							
pH :		1		1							
Dilution Factor :		1.0		1.0							
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
*Chlorobenzene	10										
*Ethylbenzene	10										
Xylenes (total)	10										
*Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
*1,3-Dichlorobenzene	10										
*1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R						
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 31029 SDG : C00Q8 Number of Soil Samples : 20
Site : ELKTON FARMS Number of Water Samples : 0
Lab. : CEIMIC

Sample Number :		C00Q5		C00Q6		C00Q7		C00Q8		C00Q9	
Sampling Location :		S1		S10		S11		S12		S13	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/08/2002		10/08/2002	
Time Sampled :		10:00		11:50		12:10		11:45		13:05	
%Moisture :		15		15		15		18		14	
Dilution Factor :		1.04		1.0		0.93		0.98		1.02	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10		UJ		UJ		UJ		UJ		UJ
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10							2	J		
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10								UJ		UJ
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	12	B	11	B	11	B	16	B	20	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10								UJ		UJ
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10								UJ		UJ
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10									37	
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00Q8
ELKTON FARMS
CEIMIC

Sample Number :		C00Q5		C00Q6		C00Q7		C00Q8		C00Q9	
Sampling Location :		S1		S10		S11		S12		S13	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/08/2002		10/08/2002	
Time Sampled :		10:00		11:50		12:10		11:45		13:05	
%Moisture :		15		15		15		18		14	
Dilution Factor :		1.04		1.0		0.93		0.98		1.02	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R		R		R		R
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00Q8
ELKTON FARMS
CEIMIC

Sample Number :		C00R0		C00R1		C00R2		C00R3		C00R4	
Sampling Location :		S14		S2		S3		S4		S5	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/09/2002		10/08/2002		10/09/2002		10/08/2002	
Time Sampled :		11:25		12:50		09:45		11:25		11:40	
%Moisture :		11		14		18		16		16	
Dilution Factor :		1.09		1.0		1.06		1.0		1.02	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10		UJ		UJ		UJ		UJ		UJ
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10	3	J.								
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10		UJ				UJ				UJ
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	27	B	11	B	9	B	9	B	9	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10		UJ				UJ				UJ
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10		UJ				UJ				UJ
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10	160									
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10	21									

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00Q8
ELKTON FARMS
CEIMIC

Sample Number :		C00R0		C00R1		C00R2		C00R3		C00R4	
Sampling Location :		S14		S2		S3		S4		S5	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/09/2002		10/08/2002		10/09/2002		10/08/2002	
Time Sampled :		11:25		12:50		09:45		11:25		11:40	
%Moisture :		11		14		18		16		16	
Dilution Factor :		1.09		1.0		1.06		1.0		1.02	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R		R		R		R
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R7		C00S1		C00S2		C00S3		C00S4	
Sampling Location :		S8		SED2		SED3		SED4		SED5	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		12:35		13:30		11:20		10:45		10:00	
%Moisture :		17		26		32		17		80	
Dilution Factor :		1.04		1.0		1.02		0.85		1.06	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10		UJ		UJ		UJ		UJ		UJ
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10		UJ	2	B	4	B	4	B		UJ
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	19	B	15	B	11	B	6	B	35	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10		UJ		UJ		UJ		UJ		UJ
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10		UJ		UJ		UJ		UJ		UJ
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

DATA SUMMARY FORM: VOLATILES

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R7		C00S1		C00S2		C00S3		C00S4	
Sampling Location :		S8		SED2		SED3		SED4		SED5	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		12:35		13:30		11:20		10:45		10:00	
%Moisture :		17		26		32		17		80	
Dilution Factor :		1.04		1.0		1.02		0.85		1.06	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R		R		R		R
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00Q8
ELKTON FARMS
CEIMIC

Sample Number :		C00S5		C00S9		C00T3		C00T5		C00T8	
Sampling Location :		SED6		SS12		SS3		SS5		SS8	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		13:35		12:45		10:15		12:40		12:40	
%Moisture :		27		29		18		18		10	
Dilution Factor :		0.96		0.86		1.02		0.98		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10		UJ		UJ		UJ		UJ		UJ
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10		UJ	3	B		UJ		UJ	2	B
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	20	B	15	B	11	B	10	B	12	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10		UJ		UJ		UJ		UJ		UJ
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10		UJ		UJ		UJ		UJ		UJ
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

DATA SUMMARY FORM: VOLATILES

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S5		C00S9		C00T3		C00T5		C00T8	
Sampling Location :		SED6		SS12		SS3		SS5		SS8	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		13:35		12:45		10:15		12:40		12:40	
%Moisture :		27		29		18		18		10	
Dilution Factor :		0.96		0.86		1.02		0.98		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R		R		R		R
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00R5
ELKTON FARMS
CEIMIC

Number of Soil Samples : 10
Number of Water Samples : 0

Sample Number :		C00R5		C00R6		C00R8		C00S0		C00S6	
Sampling Location :		S6		S7		S9		SED1		SS1	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		13:00		11:00		10:30		09:30		09:40	
%Moisture :		14		17		13		66		16	
Dilution Factor :		1.06		1.06		1.0		1.09		0.98	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10		UJ		UJ		UJ		UJ		UJ
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10							29	J		
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	40	B	39	B	40	B	61	B	25	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10		UJ		UJ		UJ		UJ		UJ
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10										
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

DATA SUMMARY FORM: VOLATILES

Case #: 31029
Site :
Lab. :

SDG : C00R5
ELKTON FARMS
CEIMIC

Sample Number :		C00R5		C00R6		C00R8		C00S0		C00S6	
Sampling Location :		S6		S7		S9		SED1		SS1	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		13:00		11:00		10:30		09:30		09:40	
%Moisture :		14		17		13		66		16	
Dilution Factor :		1.06		1.06		1.0		1.09		0.98	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R		R		R		R
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

Case #: 31029 SDG : C00R5
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S8		C00T2		C00T4		C00T6		C00T9	
Sampling Location :		SS11		SS2		SS4		SS6		SS9	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		12:15		12:55		14:40		13:00		10:40	
%Moisture :		13		14		15		14		13	
Dilution Factor :		1.09		1.09		1.06		1.04		1.02	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10		UJ		UJ		UJ		UJ		UJ
Chloromethane	10										
Vinyl Chloride	10										
Bromomethane	10										
Chloroethane	10										
Trichlorofluoromethane	10										
1,1-Dichloroethene	10										
1,1,2-Trichloro-1,2,2-trifluoroethane	10										
Acetone	10							6	J		
Carbon Disulfide	10										
Methyl Acetate	10										
Methylene Chloride	10	28	B	32	B	25	B	17	B	14	B
trans-1,2-Dichloroethene	10										
Methyl tert-Butyl Ether	10		UJ		UJ		UJ				
1,1-Dichloroethane	10										
cis-1,2-Dichloroethene	10										
2-Butanone	10										
Chloroform	10										
1,1,1-Trichloroethane	10										
Cyclohexane	10										
Carbon Tetrachloride	10										
Benzene	10										
1,2-Dichloroethane	10										
Trichloroethene	10										
Methylcyclohexane	10										
1,2-Dichloropropane	10										
Bromodichloromethane	10										
cis-1,3-Dichloropropene	10										
4-Methyl-2-pentanone	10										
Toluene	10										
trans-1,3-Dichloropropene	10										
1,1,2-Trichloroethane	10										
Tetrachloroethene	10										

DATA SUMMARY FORM: VOLATILES

Case #: 31029 SDG : C00R5
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S8		C00T2		C00T4		C00T6		C00T9	
Sampling Location :		SS11		SS2		SS4		SS6		SS9	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		12:15		12:55		14:40		13:00		10:40	
%Moisture :		13		14		15		14		13	
Dilution Factor :		1.09		1.09		1.06		1.04		1.02	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10										
Dibromochloromethane	10										
1,2-Dibromoethane	10										
Chlorobenzene	10										
Ethylbenzene	10										
Xylenes (total)	10										
Styrene	10										
Bromoform	10										
Isopropylbenzene	10										
1,1,2,2-Tetrachloroethane	10										
1,3-Dichlorobenzene	10										
1,4-Dichlorobenzene	10										
1,2-Dichlorobenzene	10										
1,2-Dibromo-3-chloropropane	10		R		R		R		R		R
1,2,4-Trichlorobenzene	10										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 31029 SDG : C00P7 Number of Soil Samples : 0
Site : ELKTON FARMS Number of Water Samples : 6
Lab. : CEIMIC

Sample Number :		C00P6		C00P7		C00P8		C00P9		C00Q0	
Sampling Location :		SW1		SW2		SW3		SW4		SW5	
Field QC:				Dup. (C00Q1)							
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		10/09/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		09:25		13:25		11:15		10:40		09:50	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10										
Phenol	10										
bis-(2-Chloroethyl) ether	10										
2-Chlorophenol	10										
2-Methylphenol	10										
2,2'-oxybis(1-Chloropropane)	10										
Acetophenone	10										
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	10										
Hexachloroethane	10										
Nitrobenzene	10										
Isophorone	10										
2-Nitrophenol	10										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	10										
2,4-Dichlorophenol	10										
Naphthalene	10										
4-Chloroaniline	10										
Hexachlorobutadiene	10										
Caprolactam	10										
4-Chloro-3-methylphenol	10										
2-Methylnaphthalene	10										
Hexachlorocyclopentadiene	10										
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	25										
1,1'-Biphenyl	10										
2-Chloronaphthalene	10										
2-Nitroaniline	25										
Dimethylphthalate	10										
2,6-Dinitrotoluene	10										
Acenaphthylene	10										
3-Nitroaniline	25										

DATA SUMMARY FORM: BNA

Case #: 31029
Site :
Lab. :

SDG : C00P7
ELKTON FARMS
CEIMIC

Sample Number :		C00P6		C00P7		C00P8		C00P9		C00Q0	
Sampling Location :		SW1		SW2		SW3		SW4		SW5	
Field QC:				Dup. (C00Q1)							
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		10/09/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		09:25		13:25		11:15		10:40		09:50	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	10										
2,4-Dinitrophenol	25										
4-Nitrophenol	25										
Dibenzofuran	10										
2,4-Dinitrotoluene	10										
Diethylphthalate	10										
Fluorene	10										
4-Chlorophenyl-phenyl ether	10										
4-Nitroaniline	25										
4,6-Dinitro-2-methylphenol	25										
N-Nitrosodiphenylamine	10										
4-Bromophenyl-phenylether	10										
*Hexachlorobenzene	10										
Atrazine	10										
*Pentachlorophenol	25										
Phenanthrene	10										
Anthracene	10										
Carbazole	10										
Di-n-butylphthalate	10										
Fluoranthene	10										
Pyrene	10										
Butylbenzylphthalate	10										
3,3'-Dichlorobenzidine	10										
Benzo(a)anthracene	10										
Chrysene	10										
bis(2-Ethylhexyl)phthalate	10			3	J			1	J		
Di-n-octylphthalate	10										
Benzo(b)fluoranthene	10										
Benzo(k)fluoranthene	10										
Benzo(a)pyrene	10										
Indeno(1,2,3-cd)pyrene	10										
Dibenzo(a,h)anthracene	10										
Benzo(g,h,i)perylene	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: BNA (Lab Results)

Case #: 31029 SDG : C00P7
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00Q1									
Sampling Location :		SW6									
Field QC:		Dup. (C00P7)									
Matrix :		Water									
Units :		ug/L									
Date Sampled :		10/08/2002									
Time Sampled :		13:30									
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10										
Phenol	10										
bis-(2-Chloroethyl) ether	10										
2-Chlorophenol	10										
2-Methylphenol	10										
2,2'-oxybis(1-Chloropropane)	10										
Acetophenone	10										
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	10										
Hexachloroethane	10										
Nitrobenzene	10										
Isophorone	10										
2-Nitrophenol	10										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	10										
2,4-Dichlorophenol	10										
Naphthalene	10										
4-Chloroaniline	10										
Hexachlorobutadiene	10										
Caprolactam	10										
4-Chloro-3-methylphenol	10										
2-Methylnaphthalene	10										
Hexachlorocyclopentadiene	10										
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	25										
1,1'-Biphenyl	10										
2-Chloronaphthalene	10										
2-Nitroaniline	25										
Dimethylphthalate	10										
2,6-Dinitrotoluene	10										
Acenaphthylene	10										
3-Nitroaniline	25										

DATA SUMMARY FORM: BNA

Case #: 31029 SDG : C00P7
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00Q1									
Sampling Location :		SW6									
Field QC:		Dup. (C00P7)									
Matrix :		Water									
Units :		ug/L									
Date Sampled :		10/08/2002									
Time Sampled :		13:30									
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	10										
2,4-Dinitrophenol	25										
4-Nitrophenol	25										
Dibenzofuran	10										
2,4-Dinitrotoluene	10										
Diethylphthalate	10										
Fluorene	10										
4-Chlorophenyl-phenyl ether	10										
4-Nitroaniline	25										
4,6-Dinitro-2-methylphenol	25										
N-Nitrosodiphenylamine	10										
4-Bromophenyl-phenylether	10										
*Hexachlorobenzene	10										
Atrazine	10										
*Pentachlorophenol	25										
Phenanthrene	10										
Anthracene	10										
Carbazole	10										
Di-n-butylphthalate	10										
Fluoranthene	10										
Pyrene	10										
Butylbenzylphthalate	10										
3,3'-Dichlorobenzidine	10										
Benzo(a)anthracene	10										
Chrysene	10										
bis(2-Ethylhexyl)phthalate	10										
Di-n-octylphthalate	10										
Benzo(b)fluoranthene	10										
Benzo(k)fluoranthene	10										
Benzo(a)pyrene	10										
Indeno(1,2,3-cd)pyrene	10										
Dibenzo(a,h)anthracene	10										
Benzo(g,h,i)perylene	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 31029 SDG : C00Q8 Number of Soil Samples : 20
Site : ELKTON FARMS Number of Water Samples : 0
Lab. : CEIMIC

Sample Number :		C00Q5		C00Q6		C00Q7		C00Q8		C00Q9	
Sampling Location :		S1		S10		S11		S12		S13	
Field QC:								Dup. (C00R4)			
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/08/2002		10/08/2002	
Time Sampled :		10:00		11:50		12:10		11:45		13:05	
%Moisture :		15		14		15		13		17	
Dilution Factor :		1.0		1.0		1.0		0.99		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

DATA SUMMARY FORM: BNA

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00Q5		C00Q6		C00Q7		C00Q8		C00Q9	
Sampling Location :		S1		S10		S11		S12		S13	
Field QC:								Dup. (C00R4)			
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/08/2002		10/08/2002	
Time Sampled :		10:00		11:50		12:10		11:45		13:05	
%Moisture :		15		14		15		13		17	
Dilution Factor :		1.0		1.0		1.0		0.99		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330										
Pentachlorophenol	830										
Phenanthrene	330										
Anthracene	330										
Carbazole	330										
Di-n-butylphthalate	330									83	J
Fluoranthene	330										
Pyrene	330										
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330										
Chrysene	330										
bis(2-Ethylhexyl)phthalate	330	180	B			1400				290	B
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330										
Benzo(k)fluoranthene	330										
Benzo(a)pyrene	330										
Indeno(1,2,3-cd)pyrene	330										
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: BNA

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R0		C00R1		C00R2		C00R3		C00R4	
Sampling Location :		S14		S2		S3		S4		S5	
Field QC:										Dup. (C00Q8)	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/09/2002		10/08/2002		10/09/2002		10/08/2002	
Time Sampled :		11:25		12:50		09:45		11:25		11:40	
%Moisture :		11		11		15		14		17	
Dilution Factor :		0.99		0.99		1.0		1.0		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330	42	J								
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

DATA SUMMARY FORM: BNA

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R0		C00R1		C00R2		C00R3		C00R4	
Sampling Location :		S14		S2		S3		S4		S5	
Field QC:										Dup. (C00Q8)	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/09/2002		10/08/2002		10/09/2002		10/08/2002	
Time Sampled :		11:25		12:50		09:45		11:25		11:40	
%Moisture :		11		11		15		14		17	
Dilution Factor :		0.99		0.99		1.0		1.0		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330		UJ								
Pentachlorophenol	830										
Phenanthrene	330										
Anthracene	330										
Carbazole	330										
Di-n-butylphthalate	330	250	J								
Fluoranthene	330	59	J								
Pyrene	330	70	J								
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330	82	J								
Chrysene	330	94	J								
bis(2-Ethylhexyl)phthalate	330	170	B	240	B	220	B			140	B
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330	69	J								
Benzo(k)fluoranthene	330	100	J								
Benzo(a)pyrene	330	89	J								
Indeno(1,2,3-cd)pyrene	330	54	J								
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R7		C00S1		C00S2		C00S3		C00S4	
Sampling Location :		S8		SED2		SED3		SED4		SED5	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		12:35		13:30		11:20		10:45		10:00	
%Moisture :		18		20		33		18		83	
Dilution Factor :		0.99		1.0		0.99		0.99		5.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330					58	J				
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R7		C00S1		C00S2		C00S3		C00S4	
Sampling Location :		S8		SED2		SED3		SED4		SED5	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		12:35		13:30		11:20		10:45		10:00	
%Moisture :		18		20		33		18		83	
Dilution Factor :		0.99		1.0		0.99		0.99		5.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330				UJ		UJ		UJ		UJ
Pentachlorophenol	830										
Phenanthrene	330										
Anthracene	330										
Carbazole	330										
Di-n-butylphthalate	330										
Fluoranthene	330										
Pyrene	330										
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330										
Chrysene	330										
bis(2-Ethylhexyl)phthalate	330	200	B	150	B	190	B	150	B		
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330										
Benzo(k)fluoranthene	330										
Benzo(a)pyrene	330										
Indeno(1,2,3-cd)pyrene	330										
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S5		C00S9		C00T3		C00T5		C00T8	
Sampling Location :		SED6		SS12		SS3		SS5		SS8	
Field QC:				Dup. (C00T5)				Dup. (C00S9)			
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		13:35		12:45		10:15		12:40		12:40	
%Moisture :		24		27		20		18		13	
Dilution Factor :		0.98		1.0		0.98		0.99		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

DATA SUMMARY FORM: BNA

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S5		C00S9		C00T3		C00T5		C00T8	
Sampling Location :		SED6		SS12		SS3		SS5		SS8	
Field QC:				Dup. (C00T5)				Dup. (C00S9)			
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		13:35		12:45		10:15		12:40		12:40	
%Moisture :		24		27		20		18		13	
Dilution Factor :		0.98		1.0		0.98		0.99		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330		UJ								
Pentachlorophenol	830										
Phenanthrene	330										
Anthracene	330										
Carbazole	330										
Di-n-butylphthalate	330										
Fluoranthene	330										
Pyrene	330										
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330										
Chrysene	330										
bis(2-Ethylhexyl)phthalate	330	180	B	230	B						
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330										
Benzo(k)fluoranthene	330										
Benzo(a)pyrene	330										
Indeno(1,2,3-cd)pyrene	330										
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

Case #: 31029 SDG : C00R5 Number of Soil Samples : 10
Site : ELKTON FARMS Number of Water Samples : 0
Lab. : CEIMIC

Sample Number :		C00R5		C00R6		C00R8		C00S0		C00S6	
Sampling Location :		S6		S7		S9		SED1		SS1	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		13:00		11:00		10:30		09:30		09:40	
%Moisture :		19		16		14		27		12	
Dilution Factor :		9.99		0.98		0.98		0.99		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330		UJ								
Phenol	330		UJ								
bis-(2-Chloroethyl) ether	330		UJ								
2-Chlorophenol	330		UJ								
2-Methylphenol	330		UJ								
2,2'-oxybis(1-Chloropropane)	330		UJ								
Acetophenone	330		UJ								
4-Methylphenol	330		UJ								
N-Nitroso-di-n-propylamine	330		UJ								
Hexachloroethane	330		UJ								
Nitrobenzene	330		UJ								
Isophorone	330		UJ								
2-Nitrophenol	330		UJ								
2,4-Dimethylphenol	330		UJ								
bis(2-Chloroethoxy)methane	330		UJ								
2,4-Dichlorophenol	330		UJ								
Naphthalene	330		UJ								
4-Chloroaniline	330		UJ								
Hexachlorobutadiene	330		UJ								
Caprolactam	330		UJ								
4-Chloro-3-methylphenol	330		UJ								
2-Methylnaphthalene	330		UJ								
Hexachlorocyclopentadiene	330		UJ								
2,4,6-Trichlorophenol	330		UJ								
2,4,5-Trichlorophenol	830		UJ								
1,1'-Biphenyl	330		UJ								
2-Chloronaphthalene	330		UJ								
2-Nitroaniline	830		UJ								
Dimethylphthalate	330		UJ								
2,6-Dinitrotoluene	330		UJ								
Acenaphthylene	330		UJ								
3-Nitroaniline	830		UJ								

Case #: 31029 SDG : C00R5
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R5		C00R6		C00R8		C00S0		C00S6	
Sampling Location :		S6		S7		S9		SED1		SS1	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		13:00		11:00		10:30		09:30		09:40	
%Moisture :		19		16		14		27		12	
Dilution Factor :		9.99		0.98		0.98		0.99		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330		UJ								
2,4-Dinitrophenol	830		UJ								
4-Nitrophenol	830		UJ								
Dibenzofuran	330		UJ								
2,4-Dinitrotoluene	330		UJ								
Diethylphthalate	330		UJ								
Fluorene	330		UJ								
4-Chlorophenyl-phenyl ether	330		UJ								
4-Nitroaniline	830		UJ								
4,6-Dinitro-2-methylphenol	830		UJ								
N-Nitrosodiphenylamine	330		UJ								
4-Bromophenyl-phenylether	330		UJ								
Hexachlorobenzene	330		UJ								
Atrazine	330		UJ								
Pentachlorophenol	830		UJ								
Phenanthrene	330		UJ								
Anthracene	330		UJ								
Carbazole	330		UJ								
Di-n-butylphthalate	330		UJ								
Fluoranthene	330		UJ								
Pyrene	330		UJ								
Butylbenzylphthalate	330		UJ								
3,3'-Dichlorobenzidine	330		UJ								
Benzo(a)anthracene	330		UJ								
Chrysene	330		UJ								
bis(2-Ethylhexyl)phthalate	330		UJ	380	B			490	B	200	B
Di-n-octylphthalate	330		UJ								
Benzo(b)fluoranthene	330		UJ								
Benzo(k)fluoranthene	330		UJ								
Benzo(a)pyrene	330		UJ								
Indeno(1,2,3-cd)pyrene	330		UJ								
Dibenzo(a,h)anthracene	330		UJ								
Benzo(g,h,i)perylene	330		UJ								

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

Case #: 31029 SDG : C00R5
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S8		C00T2		C00T4		C00T6		C00T9	
Sampling Location :		SS11		SS2		SS4		SS6		SS9	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		12:15		12:55		14:40		13:00		10:40	
%Moisture :		14		9		9		9		12	
Dilution Factor :		0.99		0.99		0.99		0.98		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330										
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

Case #: 31029 SDG : C00R5
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S8		C00T2		C00T4		C00T6		C00T9	
Sampling Location :		SS11		SS2		SS4		SS6		SS9	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		12:15		12:55		14:40		13:00		10:40	
%Moisture :		14		9		9		9		12	
Dilution Factor :		0.99		0.99		0.99		0.98		0.99	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330										
Pentachlorophenol	830										
Phenanthrene	330										
Anthracene	330										
Carbazole	330										
Di-n-butylphthalate	330										
Fluoranthene	330										
Pyrene	330										
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330										
Benzo(a)anthracene	330										
Chrysene	330										
bis(2-Ethylhexyl)phthalate	330	220	B	480	B	1000	B	180	B	530	B
Di-n-octylphthalate	330										
Benzo(b)fluoranthene	330										
Benzo(k)fluoranthene	330										
Benzo(a)pyrene	330										
Indeno(1,2,3-cd)pyrene	330										
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 | SDG : C00P7 | Number of Soil Samples : 0
Site : | ELKTON FARMS | Number of Water Samples : 6
Lab. : | CEIMIC

Sample Number :		C00P6		C00P7		C00P8		C00P9		C00Q0	
Sampling Location :		SW1		SW2		SW3		SW4		SW5	
Field QC:				Dup. (C00Q1)							
Matrix :		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		10/09/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		09:25		13:25		11:15		10:40		09:50	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050										
beta-BHC	0.050										
delta-BHC	0.050										
*gamma-BHC (Lindane)	0.050										
*Heptachlor	0.050										
Aldrin	0.050										
Heptachlor epoxide	0.050										
Endosulfan I	0.050										
Dieldrin	0.10										
4,4'-DDE	0.10										
*Endrin	0.10										
Endosulfan II	0.10										
4,4'-DDD	0.10										
Endosulfan sulfate	0.10										
4,4'-DDT	0.10										
*Methoxychlor	0.50										
Endrin ketone	0.10										
Endrin aldehyde	0.10										
alpha-Chlordane	0.050										
gamma-Chlordane	0.050										
*Toxaphene	5.0										
*Aroclor-1016	1.0										
*Aroclor-1221	2.0										
*Aroclor-1232	1.0										
*Aroclor-1242	1.0										
*Aroclor-1248	1.0										
*Aroclor-1254	1.0										
*Aroclor-1260	1.0										

CRQL = Contract Required Quantitation Limit | *Action Level Exists | SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) | Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 SDG : C00P7
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00Q1									
Sampling Location :		SW6									
Field QC:		Dup. (C00P7)									
Matrix :		Water									
Units :		ug/L									
Date Sampled :		10/08/2002									
Time Sampled :		13:30									
Dilution Factor :		1.0									
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050										
beta-BHC	0.050										
delta-BHC	0.050										
*gamma-BHC (Lindane)	0.050										
*Heptachlor	0.050										
Aldrin	0.050										
Heptachlor epoxide	0.050										
Endosulfan I	0.050										
Dieldrin	0.10										
4,4'-DDE	0.10										
*Endrin	0.10										
Endosulfan II	0.10										
4,4'-DDD	0.10										
Endosulfan sulfate	0.10										
4,4'-DDT	0.10										
*Methoxychlor	0.50										
Endrin ketone	0.10										
Endrin aldehyde	0.10										
alpha-Chlordane	0.050										
gamma-Chlordane	0.050										
*Toxaphene	5.0										
*Aroclor-1016	1.0										
*Aroclor-1221	2.0										
*Aroclor-1232	1.0										
*Aroclor-1242	1.0										
*Aroclor-1248	1.0										
*Aroclor-1254	1.0										
*Aroclor-1260	1.0										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 | SDG : C00Q8 | Number of Soil Samples : 20
Site : | ELKTON FARMS | Number of Water Samples : 0
Lab. : | CEIMIC

Sample Number :		C00Q5		C00Q6		C00Q7		C00Q8		C00Q9	
Sampling Location :		S1		S10		S11		S12		S13	
Field QC:								Dup. (C00R4)			
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/08/2002		10/08/2002	
Time Sampled :		10:00		11:50		12:10		11:45		13:05	
%Moisture :		15		14		15		13		17	
Dilution Factor :		1.0		0.99		0.98		1.0		9.99/99	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7										
beta-BHC	1.7										
delta-BHC	1.7										
gamma-BHC (Lindane)	1.7										
Heptachlor	1.7										
Aldrin	1.7										
Heptachlor epoxide	1.7										
Endosulfan I	1.7							2.1	J		
Dieldrin	3.3										
4,4'-DDE	3.3										
Endrin	3.3							4.1	J		
Endosulfan II	3.3							13			
4,4'-DDD	3.3							8.9	J		
Endosulfan sulfate	3.3										
4,4'-DDT	3.3							9.5	J	1400 +	
Methoxychlor	17										
Endrin ketone	3.3							3.9	J		
Endrin aldehyde	3.3							9.0	J		
alpha-Chlordane	1.7							6.6			
gamma-Chlordane	1.7							6.7			
Toxaphene	170			86	J			610			
Aroclor-1016	33										
Aroclor-1221	67										
Aroclor-1232	33										
Aroclor-1242	33										
Aroclor-1248	33										
Aroclor-1254	33										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit | SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 | Revised 09/99
+ = Reported from diluted analysis

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R0		C00R1		C00R2		C00R3		C00R4	
Sampling Location :		S14		S2		S3		S4		S5	
Field QC:										Dup. (C00Q8)	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/09/2002		10/08/2002		10/09/2002		10/08/2002	
Time Sampled :		11:25		12:50		09:45		11:25		11:40	
%Moisture :		11		11		15		14		17	
Dilution Factor :		0.99		1.0		0.99		0.99		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7							3.6			
beta-BHC	1.7										
delta-BHC	1.7										
gamma-BHC (Lindane)	1.7										
Heptachlor	1.7										
Aldrin	1.7										
Heptachlor epoxide	1.7	3.1	J								
Endosulfan I	1.7										
Dieldrin	3.3										
4,4'-DDE	3.3										
Endrin	3.3										
Endosulfan II	3.3										
4,4'-DDD	3.3										
Endosulfan sulfate	3.3										
4,4'-DDT	3.3										
Methoxychlor	17										
Endrin ketone	3.3										
Endrin aldehyde	3.3			4.0	J						
alpha-Chlordane	1.7										
gamma-Chlordane	1.7	4.6	J								
Toxaphene	170			160	J						
Aroclor-1016	33										
Aroclor-1221	67										
Aroclor-1232	33										
Aroclor-1242	33										
Aroclor-1248	33										
Aroclor-1254	33	190									
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00R7		C00S1		C00S2		C00S3		C00S4	
Sampling Location :		S8		SED2		SED3		SED4		SED5	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		12:35		13:30		11:20		10:45		10:00	
%Moisture :		18		20		33		18		83	
Dilution Factor :		0.98		0.98		1.0		0.99		0.99	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7									10	J
beta-BHC	1.7										
delta-BHC	1.7										
gamma-BHC (Lindane)	1.7										
Heptachlor	1.7										
Aldrin	1.7										
Heptachlor epoxide	1.7	4.2	J								
Endosulfan I	1.7										
Dieldrin	3.3										
4,4'-DDE	3.3										
Endrin	3.3										
Endosulfan II	3.3										
4,4'-DDD	3.3										
Endosulfan sulfate	3.3										
4,4'-DDT	3.3										
Methoxychlor	17										
Endrin ketone	3.3										
Endrin aldehyde	3.3										
alpha-Chlordane	1.7										
gamma-Chlordane	1.7										
Toxaphene	170										
Aroclor-1016	33										
Aroclor-1221	67										
Aroclor-1232	33										
Aroclor-1242	33										
Aroclor-1248	33										
Aroclor-1254	33										
Aroclor-1260	33										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 SDG : C00Q8
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S5		C00S9		C00T3		C00T5		C00T8	
Sampling Location :		SED6		SS12		SS3		SS5		SS8	
Field QC:				Dup. (C00T5)				Dup. (C00S9)			
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/08/2002		10/08/2002		10/08/2002		10/08/2002		10/08/2002	
Time Sampled :		13:35		12:45		10:15		12:40		12:40	
%Moisture :		24		27		20		18		13	
Dilution Factor :		0.99		0.99		0.99		0.99		0.99	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7				UJ					2.6	
beta-BHC	1.7				UJ						
delta-BHC	1.7				UJ						
gamma-BHC (Lindane)	1.7				UJ						
Heptachlor	1.7				UJ						
Aldrin	1.7				UJ						
Heptachlor epoxide	1.7				UJ	2.9	J				
Endosulfan I	1.7				UJ						
Dieldrin	3.3				UJ						
4,4'-DDE	3.3				UJ						
Endrin	3.3				UJ						
Endosulfan II	3.3				UJ						
4,4'-DDD	3.3				UJ						
Endosulfan sulfate	3.3				UJ						
4,4'-DDT	3.3				UJ						
Methoxychlor	17				UJ						
Endrin ketone	3.3				UJ						
Endrin aldehyde	3.3				UJ						
alpha-Chlordane	1.7				UJ						
gamma-Chlordane	1.7				UJ						
Toxaphene	170				UJ						
Aroclor-1016	33				UJ						
Aroclor-1221	67				UJ						
Aroclor-1232	33				UJ						
Aroclor-1242	33				UJ						
Aroclor-1248	33				UJ						
Aroclor-1254	33				UJ						
Aroclor-1260	33				UJ						

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 SDG : C00R5 Number of Soil Samples : 10
Site : ELKTON FARMS Number of Water Samples : 0
Lab. : CEIMIC

Sample Number :		C00R5		C00R6		C00R8		C00S0		C00S6	
Sampling Location :		S6		S7		S9		SED1		SS1	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		13:00		11:00		10:30		09:30		09:40	
%Moisture :		18		16		14		27		12	
Dilution Factor :		0.99		1.0		1.0		0.98		0.99	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7	6.1	J	3.5		3.1		4.5		6.2	
beta-BHC	1.7		UJ								
delta-BHC	1.7		UJ								
gamma-BHC (Lindane)	1.7		UJ								
Heptachlor	1.7		UJ								
Aldrin	1.7		UJ								
Heptachlor epoxide	1.7		UJ								
Endosulfan I	1.7		UJ								
Dieldrin	3.3		UJ			7.6	J				
4,4'-DDE	3.3		UJ								
Endrin	3.3		UJ								
Endosulfan II	3.3		UJ								
4,4'-DDD	3.3		UJ			8.5	J				
Endosulfan sulfate	3.3		UJ								
4,4'-DDT	3.3		UJ			5.5	J				
Methoxychlor	17		UJ								
Endrin ketone	3.3		UJ								
Endrin aldehyde	3.3		UJ			7.6					
alpha-Chlordane	1.7		UJ								
gamma-Chlordane	1.7		UJ								
Toxaphene	170		UJ			470					
Aroclor-1016	33		UJ								
Aroclor-1221	67		UJ								
Aroclor-1232	33		UJ								
Aroclor-1242	33		UJ								
Aroclor-1248	33		UJ								
Aroclor-1254	33		UJ								
Aroclor-1260	33		UJ								

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

DATA SUMMARY FORM: PESTICIDES AND PCBS

Case #: 31029 SDG : C00R5
Site : ELKTON FARMS
Lab. : CEIMIC

Sample Number :		C00S8		C00T2		C00T4		C00T6		C00T9	
Sampling Location :		SS11		SS2		SS4		SS6		SS9	
Field QC:											
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		10/09/2002		10/09/2002		10/09/2002		10/09/2002		10/09/2002	
Time Sampled :		12:15		12:55		14:40		13:00		10:40	
%Moisture :		14		9		9		9		12	
Dilution Factor :		0.99		0.99		0.99		1.0		1.0	
Pesticide/PCB Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7	2.2		3.6	J	12		3.4		3.1	
beta-BHC	1.7				UJ						
delta-BHC	1.7				UJ						
gamma-BHC (Lindane)	1.7				UJ						
Heptachlor	1.7				UJ						
Aldrin	1.7				UJ						
Heptachlor epoxide	1.7				UJ						
Endosulfan I	1.7				UJ						
Dieldrin	3.3				UJ						
4,4'-DDE	3.3				UJ						
Endrin	3.3				UJ						
Endosulfan II	3.3				UJ						
4,4'-DDD	3.3				UJ						
Endosulfan sulfate	3.3				UJ						
4,4'-DDT	3.3				UJ			12			
Methoxychlor	17				UJ						
Endrin ketone	3.3				UJ						
Endrin aldehyde	3.3				UJ						
alpha-Chlordane	1.7				UJ						
gamma-Chlordane	1.7				UJ						
Toxaphene	170				UJ						
Aroclor-1016	33				UJ						
Aroclor-1221	67				UJ						
Aroclor-1232	33				UJ						
Aroclor-1242	33				UJ						
Aroclor-1248	33				UJ						
Aroclor-1254	33				UJ						
Aroclor-1260	33				UJ						

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

Appendix C

Tentatively Identified Compounds

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R5

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-01

Sample wt/vol: 4.7 (g/mL) G Lab File ID: Q3908

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 14 Date Analyzed: 10/17/02

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0 1.06

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~582-16-1~~	~~NAPHTHALENE, 2,7-DIMETHYL~~	16.08	18	NJ
2. ~~575-37-1~~	~~NAPHTHALENE, 1,7-DIMETHYL~~	16.76	15	NJ
3. ~~575-43-9~~	~~NAPHTHALENE, 1,6-DIMETHYL~~	16.91	9	NJ
4.	UNKNOWN DIMETHIL NAPHTHALENE			
5.	UNKNOWN DIMETHYL NAPHTHALENE			
6.	UNKNOWN DIMETHYL NAPHTHALENE			
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V. 12/16/02

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R6

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-02

Sample wt/vol: 4.7 (g/mL) G Lab File ID: Q3909

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 17 Date Analyzed: 10/17/02

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0 1.06

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

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~581-42-0~~	~~NAPHTHALENE, 2,6-DIMETHYL-~~	16.09	9	NJ
2. 90-12-0	NAPHTHALENE, 1-METHYL-	20.78	8	NJ
3.	UNKNOWN DIMETHYL NAPHTHALENE			
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

DV. 12/16/02

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T6

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-09

Sample wt/vol: 4.8 (g/mL) G Lab File ID: Q3926

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 14 Date Analyzed: 10/18/02

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0 1.04

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~582-16-1~~	~~NAPHTHALENE, 2,7-DIMETHYL~~	16.07	22	NJ
2. ~~575-43-9~~	~~NAPHTHALENE, 1,6-DIMETHYL~~	16.76	15	NJ
3. ~~575-41-7~~	~~NAPHTHALENE, 1,3-DIMETHYL~~	16.92	9	NJ
4.	UNKNOWN DIMETHYL NAPHTHALENE			
5.	UNKNOWN DIMETHYL NAPHTHALENE			
6.	UNKNOWN DIMETHYL NAPHTHALENE			
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V 12/16/02

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T9

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-10

Sample wt/vol: 4.9 (g/mL) G Lab File ID: Q3927

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 13 Date Analyzed: 10/18/02

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0 1.02

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~581-40-8~~	~~NAPHTHALENE, 2,3-DIMETHYL~~	16.08	7	NJ
2.	UNKNOWN DIMETHYL NAPHTHALENE			
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V 12/16/02

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R7

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-06

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AD767

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 18 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.94

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.33~~	~~4100~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~590~~	~~JB~~
3.	~~UNKNOWN~~	~~4.81~~	~~440~~	~~JB~~
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V. 12/16/

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00Q7

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-18

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AD782

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 15 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~3500~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~440~~	~~JB~~
3. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.27	440	NJ
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V
12/6

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00Q9

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-02

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AD764

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 17 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.44

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.33~~	~~6500~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~930~~	~~JB~~
3.	~~UNKNOWN~~	~~4.81~~	~~430~~	~~JB~~
4. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.24	440	NJ
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D v.

FORM I SV-TIC OLM04.2

320

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R0

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-03

Sample wt/vol: 30.2 (g/mL) G Lab File ID: IG027

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 11 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.49

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

Number TICs found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~5.51~~	~~3200~~	~~JB~~
2.	~~UNKNOWN~~	~~5.57~~	~~180~~	~~JB~~
3.	UNKNOWN	5.80	110	J
4.	~~UNKNOWN~~	~~5.93~~	~~480~~	~~JB~~
5.	UNKNOWN	8.05	78	J
6. 118-96-7	BENZENE, 2-METHYL-1,3,5-TRIN	10.03	12000	NJ
7. 57-10-3	HEXADECANOIC ACID	10.83	130	NJ
8. 35572-78-2	BENZENAMINE, 2-METHYL-3,5-DI	11.18	240	NJ
9.	UNKNOWN CARBOXYLIC ACID	11.53	83	J
10.	TETRAMETHYLPHENANTHRENE	12.17	97	NJ
11. 842-07-9	2-NAPHTHALENOL, 1-(PHENYLAZO	13.23	120	NJ
12. 563-04-2	PHOSPHORIC ACID, TRIS(3-METH	13.82	90	NJ
13. 1330-78-5	PHOSPHORIC ACID, TRIS(METHYL	14.00	150	NJ
14.	UNKNOWN AMIDE	14.36	320	J
15.	UNKNOWN	14.63	230	J
16.	BRANCHED ALKENE	16.59	450	J
17.	UNKNOWN	18.68	120	J
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V. 12/16/0

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R2

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-04

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AD765

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 15 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7 Extraction: (Type) SONC

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.33~~	~~6800~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~990~~	~~JB~~
3.	~~UNKNOWN~~	~~4.81~~	~~630~~	~~JB~~
4. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.20	300	NJ
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D u
11/16/

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R3

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-20

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AD784

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 14 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.1 Extraction: (Type) SONC

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.35~~	~~3600~~	~~JB~~
2.	~~UNKNOWN~~	~~4.74~~	~~510~~	~~JB~~
3.	UNKNOWN	4.84	340	J
4.	UNKNOWN	11.00	440	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D
12/16/

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R4

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-05

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AD766

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 17 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Extraction: (Type) SONC

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~3900~~	~~JB~~
2.	~~UNKNOWN~~	~~4.70~~	~~540~~	~~JB~~
3.	UNKNOWN	11.00	260	J
4. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.20	680	NJ
5.	UNKNOWN	12.38	250	J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.U
N/Id.

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00S1

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-07

Sample wt/vol: 30.1 (g/mL) G Lab File ID: IG022

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 20 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4 Extraction: (Type) SONC

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~5.52~~	~~3400~~	~~JB~~
2.	~~UNKNOWN~~	~~5.58~~	~~170~~	~~JB~~
3.	UNKNOWN	5.80	360	J
4.	~~UNKNOWN~~	~~5.95~~	~~570~~	~~JB~~
5.	UNKNOWN	6.85	84	J
6.	UNKNOWN ALCOHOL	7.14	130	J
7.	UNKNOWN ALKENE	8.75	530	J
8.	HALOGENATED HYDROCARBON	9.75	210	J
9. 0-00-0	2-HEXYL-1-DECANOL	10.60	90	NJ
10.	UNKNOWN AMIDE	14.39	300	J
11.	UNKNOWN	14.66	100	J
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00S2

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-08

Sample wt/vol: 30.3 (g/mL) G Lab File ID: IG023

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 33 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.94

GPC Cleanup: (Y/N) Y pH: 6.1 Extraction: (Type) SONC

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	~~UNKNOWN~~	~~5.52~~	~~6400~~	~~JB~~	D✓
2.	~~UNKNOWN~~	~~5.58~~	~~240~~	~~JB~~	
3.	UNKNOWN	5.81	430	J	
4.	~~UNKNOWN~~	~~5.94~~	~~1100~~	~~JB~~	D✓
5.	UNKNOWN	6.05	440	J	
6.	UNKNOWN	7.13	120	J	
7. 57-10-3	HEXADECANOIC ACID	10.83	300	NJ	
8.	UNKNOWN	11.47	110	J	
9.	UNKNOWN AMIDE	14.35	170	J	
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00S3

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-09

Sample wt/vol: 30.2 (g/mL) G Lab File ID: IG024

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 18 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Extraction: (Type) SONC

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~5.52~~	~~5200~~	~~JB~~
2.	~~UNKNOWN~~	~~5.57~~	~~320~~	~~JB~~
3.	UNKNOWN	5.81	470	J
4.	~~UNKNOWN~~	~~5.94~~	~~860~~	~~JB~~
5.	UNKNOWN	6.05	510	J
6. 2091-29-4	9-HEXADECENOIC ACID	10.78	210	NJ
7. 57-10-3	HEXADECANOIC ACID	10.83	260	NJ
8. 57-11-4	OCTADECANOIC ACID	11.52	370	NJ
9.	UNKNOWN ACID ESTER	13.82	120	J
10.	UNKNOWN AMIDE	14.35	350	J
11. 638-66-4	OCTADECANAL	16.13	150	NJ
12. 57-88-5	CHOLESTEROL	18.05	670	NJ
13.	UNKNOWN	18.79	220	J
14.	UNKNOWN	20.76	330	J
15.	UNKNOWN	23.03	250	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00S4

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: IG025

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 83 Decanted: (Y/N) N Date Extracted: 10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 5.4 Extraction: (Type) SONC

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~5.50~~	~~36000~~	~~JB~~
2.	~~UNKNOWN~~	~~5.93~~	~~5800~~	~~JB~~
3. 102608-53-7	3,7,11,15-TETRAMETHYL-2-HEXA	10.56	3600	NJ
4. 2091-29-4	9-HEXADECENOIC ACID	10.77	8600	NJ
5.	UNKNOWN	11.18	2200	J
6.	UNKNOWN ALCOHOL	11.42	2300	J
7.	UNKNOWN	13.81	3000	J
8.	UNKNOWN AMIDE	14.34	2500	J
9.	UNKNOWN	15.12	3500	J
10.	UNKNOWN	17.32	2100	J
11.	UNKNOWN	18.05	3900	J
12.	UNKNOWN	20.72	9000	J
13. 1058-61-3	STIGMAST-4-EN-3-ONE	23.02	2600	NJ
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D ✓
12/16/

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00S5

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-11

Sample wt/vol: 30.5 (g/mL) G Lab File ID: IG026

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 24 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/23/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0 '9 8

GPC Cleanup: (Y/N) Y pH: 5.6 Extraction: (Type) SONC

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKOWN	5.29	220	J	
2.	~~UNKNOWN~~	~~5.52~~	~~5200~~	~~JB~~	D J
3.	~~UNKNOWN~~	~~5.58~~	~~250~~	~~JB~~	
4.	UNKNOWN	5.80	640	J	
5.	~~UNKNOWN~~	~~5.94~~	~~950~~	~~JB~~	D J
6.	UNKNOWN ALCOHOL	7.13	110	J	
7. 57-10-3	HEXADECANOIC ACID	10.81	99	NJ	11/16/02
8.	UNKNOWN AMIDE	14.34	170	J	
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00S9

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-12

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AD776

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 27 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~5400~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~650~~	~~JB~~
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V
12/16/

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T3

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-13

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AD777

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 20 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.95

GPC Cleanup: (Y/N) Y pH: 5.9 Extraction: (Type) SONC

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~3700~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~440~~	~~JB~~
3.	UNKNOWN FATTY ALCOHOL	11.08	1400	J
4. 1454-84-8	1-NONADECANOL	11.83	1900	NJ
5.	UNKNOWN	14.18	390	J
6.	UNKNOWN	16.01	490	J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V 12/16/

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T5

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00Q8

Matrix: (soil/water) SOIL Lab Sample ID: 021029-14

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AD778

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: 18 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.94

GPC Cleanup: (Y/N) Y pH: 5.9 Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~3600~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~480~~	~~JB~~
3. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.25	330	NJ
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D ✓
12/14.

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R6

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-02

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AD787

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 16 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.018

GPC Cleanup: (Y/N) Y pH: 4.2 Extraction: (Type) SONC

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~4400~~	~~JB~~
2. 4889-83-2	BICYCLO[3.1.1]HEPT-2-ENE, 3,	4.45	310	NJ
3.	~~UNKNOWN~~	~~4.70~~	~~700~~	~~JB~~
4.	UNKNOWN	4.80	620	J
5. 13744-15-5	1H-CYCLOPENTA[1,3]CYCLOPROPA	7.65	1300	NJ
6. 514-51-2	4,7-METHANOAZULENE, 1,2,3,4,	7.79	390	NJ
7. 3856-25-5	COPAENE	8.37	1000	NJ
8. 122-69-0	CINNAMYL CINNAMATE	10.93	10000	NJ
9.	UNKNOWN FATTY ALCOHOL	11.01	340	J
10. 36653-82-4	1-HEXADECANOL	11.75	390	NJ
11. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.19	710	NJ
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00R8

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-03

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AD788

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 14 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.98

GPC Cleanup: (Y/N) Y pH: 4.6 Extraction: (Type) SONC

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~4500~~	~~JB~~
2.	~~UNKNOWN~~	~~4.70~~	~~770~~	~~JB~~
3.	UNKNOWN	4.80	680	J
4.	UNKNOWN	17.42	620	J
5.	UNKNOWN	17.79	390	J
6.	UNKNOWN	17.98	1500	J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

JV. 12/16/02

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00S0

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-04

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AD789

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 27 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/24/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.99

GPC Cleanup: (Y/N) Y pH: 5.5 Extraction: (Type) SONC

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~5500~~	~~JB~~ B
2.	UNKNOWN	4.37	330	J
3.	UNKNOWN	4.59	480	J
4.	~~UNKNOWN~~	~~4.71~~	~~780~~	~~JB~~ B
5.	UNKNOWN	4.81	730	J
6. 57-10-3	HEXADECANOIC ACID	9.35	490	NJ
7. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.20	1300	NJ
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D v. 11/6/02

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T2

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-07

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AD802

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 9 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/25/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.99

GPC Cleanup: (Y/N) Y pH: 4.8 Extraction: (Type) SONC

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.32~~	~~3500~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~440~~	~~JB~~
3.	UNKNOWN	4.81	510	J
4.	UNKNOWN AMIDE	12.26	950	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V. 12/16/02

FORM I SV-TIC OLM04.2

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T4

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-08

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AD801

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 9 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/25/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.99

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) SONC

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.33~~	~~3300~~	~~JB~~
2.	~~UNKNOWN~~	~~4.71~~	~~420~~	~~JB~~
3.	UNKNOWN	4.81	310	J
4. 319-84-6	.ALPHA.-LINDANE	8.67	1400	NJ
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

B

D J. 12/16/02

FORM I SV-TIC OLM04.2

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T6

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-09

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AD803

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 9 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/25/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.98

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.33~~	~~3800~~	~~JB~~
2.	UNKNOWN	4.38	280	J
3.	~~UNKNOWN~~	~~4.71~~	~~500~~	~~JB~~
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

DU 12/16/02

FORM I SV-TIC OLM04.2

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C00T9

Lab Name: CEIMIC CORP Contract: 68-W-99-066

Lab Code: CEIMIC Case No.: 31029 SAS No.: SDG No.: C00R5

Matrix: (soil/water) SOIL Lab Sample ID: 021043-10

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AD800

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: 12 Decanted: (Y/N) N Date Extracted:10/15/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/25/02

Injection Volume: 2.0(uL) Dilution Factor: 1.0 0.19

GPC Cleanup: (Y/N) Y pH: 4.3 Extraction: (Type) SONC

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~UNKNOWN~~	~~4.31~~	~~2500~~	~~JB~~
2.	UNKNOWN	4.80	370	J
3. 301-02-0	9-OCTADECENAMIDE, (Z)-	12.22	550	NJ
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

D.V. 12/16/02

Appendix D

Chain of Custody Records

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

Case No:	31029
DAS No:	R31295

R

Region:	3	Date Shipped:	10/8/2002	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	02T03N50102D037ZLA00	Airbill:	819742449052	1	
CERCLIS ID:	MDD985407196	Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Elkton Farm/MD			4	
Project Leader:	Alex Cox				
Action:	Expanded Site Investigation/RI				
Sampling Co:	MDE				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
C00P7	Surface Water/ Dixon Wood DW	L/G	BNA (21), PEST (21), VOA_ (21)	1134 (Ice Only), 1135 (Ice Only), 1136 (HCL), 1137 (HCL) (4)	SW2	S: 10/8/2002 13:25	MC00P7	–
C00P8	Surface Water/ Dixon Wood DW	L/G	BNA (21), PEST (21), VOA_ (21)	1140 (Ice Only), 1141 (Ice Only), 1142 (HCL), 1143 (HCL) (4)	SW3	S: 10/8/2002 11:15	MC00P8	–
C00P9	Surface Water/ Dixon Wood DW	L/G	BNA (21), PEST (21), VOA_ (21)	1151 (HCL), 1152 (HCL), 1153 (HCL), 1154 (HCL), 1155 (HCL), 1156 (HCL), 1357 (Ice Only), 1358 (Ice Only), 1359 (Ice Only), 1360 (Ice Only), 1361 (Ice Only), 1362 (Ice Only) (12)	SW4	S: 10/8/2002 10:40	MC00P9	Spike
C00Q0	Surface Water/ Phillip Anderson	L/G	BNA (21), PEST (21), VOA_ (21)	1160 (Ice Only), 1161 (Ice Only), 1162 (HCL), 1163 (HCL) (4)	SW5	S: 10/8/2002 9:50	MC00Q0	–
C00Q1	Surface Water/ Phillip Anderson	L/G	BNA (21), PEST (21), VOA_ (21)	1166 (Ice Only), 1167 (Ice Only), 1168 (HCL), 1169 (HCL) (4)	SW6	S: 10/8/2002 13:30	MC00Q1	Field Duplicate of C00P7
C00Q2	Surface Water/ Chris Hartman	L/G	VOA_ (21)	1171 (HCL), 1172 (HCL) (2)	SW7	S: 10/8/2002 9:50 - sample not rec'd by lab		Trip Blank
C00Q8	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21), VOA (21)	1190 (Ice Only), 1191 (Ice Only), 1192 (Ice Only) (3)	S12	S: 10/8/2002 11:45	MC00Q8	Field Duplicate of C00R4
C00Q9	Surface Soil (0"-12")/ Alex Cox	L/G	BNA/PEST (21), VOA (21)	1194 (Ice Only), 1195 (Ice Only), 1196 (Ice Only) (3)	S13	S: 10/8/2002 13:05	MC00Q9	
C00R0	Surface Soil (0"-12")/ Alex Cox	L/G	BNA/PEST (21), VOA (21)	1198 (Ice Only), 1199 (Ice Only), 1200 (Ice Only) (3)	S14	S: 10/8/2002 11:25	MC00R0	–

rec'd 10/30/02 C00P7 per C. Hartman MDE

rec'd 10/21/02 C00Q8

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C00P9	Additional Sampler Signature(s): Phillip Anderson	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDS), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-100802-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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

Case No: 31029
DAS No: ~~R31295~~
R

Region:	3	Date Shipped:	10/8/2002	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	02T03N50102D037ZLA00	Airbill:	819742449052	1	
CERCLIS ID:	MDD985407196	Shipped to:	Celmic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Elkton Farm/MD			4	
Project Leader:	Alex Cox				
Action:	Expanded Site Investigation/RI				
Sampling Co:	MDE				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
C00R2 ✓	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21), VOA (21)	1209 (Ice Only), 1210 (Ice Only), 1211 (Ice Only) (3)	S3 ✓	S: 10/8/2002	9:45	MC00R2	–
C00R4 ✓	Surface Soil (0"-12")/ Scott Morgan	L/G	BNA/PEST (21), VOA (21)	1217 (Ice Only), 1218 (Ice Only), 1219 (Ice Only) (3)	S5 ✓	S: 10/8/2002	11:40	MC00R4	–
C00R7 ✓	Surface Soil (0"-12")/ Alex Cox	L/G	BNA/PEST (21), VOA (21)	1229 (Ice Only), 1230 (Ice Only), 1231 (Ice Only) (3)	S8 ✓	S: 10/8/2002	12:35	MC00R7	–
C00S1 ✓	Sediment/ Dixon Wood DW	L/G	BNA/PEST (21), VOA (21)	1248 (Ice Only), 1249 (Ice Only), 1250 (Ice Only) (3)	SED2 ✓	S: 10/8/2002	13:30	MC00S1	rec'd 10/31/02 DDP
C00S2 ✓	Sediment/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1252 (Ice Only), 1253 (Ice Only), 1254 (Ice Only) (3)	SED3 ✓	S: 10/8/2002	11:20	MC00S2	– C00QB
C00S3 ✓	Sediment/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1256 (Ice Only), 1257 (Ice Only), 1258 (Ice Only) (3)	SED4 ✓	S: 10/8/2002	10:45	MC00S3	–
C00S4 ✓	Sediment/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1260 (Ice Only), 1261 (Ice Only), 1262 (Ice Only) (3)	SED5 ✓	S: 10/8/2002	10:00	MC00S4	–
C00S5 ✓	Sediment/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1264 (Ice Only), 1265 (Ice Only), 1266 (Ice Only) (3)	SED6 ✓	S: 10/8/2002	13:35	MC00S5	–
C00S9 ✓	Subsurface Soil (>12")/ Scott Morgan	L/G	BNA/PEST (21), VOA (21)	1280 (Ice Only), 1281 (Ice Only), 1282 (Ice Only) (3)	SS12 ✓	S: 10/8/2002	12:45	MC00S9	Field Duplicate of C00T3 as per C. Hartman MDE
C00T3 ✓	Subsurface Soil (>12")/ Scott Morgan	L/G	BNA/PEST (21), VOA (21)	1296 (Ice Only), 1297 (Ice Only), 1298 (Ice Only) (3)	SS3 ✓	S: 10/8/2002	10:15	MC00T3	–

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C00P9	Additional Sampler Signature(s): Scott Morgan, Phillip Anderson, W F Wood	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDS), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-100802-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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

Case No: 31029
DAS No: ~~R31295~~
R

Region:	3	Date Shipped:	10/8/2002	Chain of Custody Record	Sampler Signature:
Project Code:		Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:	02T03N50102D037ZLA00	Airbill:	819742449052	1	
CERCLIS ID:	MDD985407196	Shipped to:	Celmic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900	2	
Spill ID:				3	
Site Name/State:	Elkton Farm/MD			4	
Project Leader:	Alex Cox				
Action:	Expanded Site Investigation/RI				
Sampling Co:	MDE				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
C00T5 ✓	Subsurface Soil (>12")/ Scott Morgan	L/G	BNA/PEST (21), VOA (21)	1304 (Ice Only), 1305 (Ice Only), 1306 (Ice Only) (3)	SS5	S: 10/8/2002	12:40	MC00T5	–
C00T8 ✓	Subsurface Soil (>12")/ Alex Cox	L/G	BNA/PEST (21), VOA (21)	1316 (Ice Only), 1317 (Ice Only), 1318 (Ice Only) (3)	SS8	S: 10/8/2002	12:40	MC00T8	–

Med 10/3/02 LLP C00Q8

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C00P9	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDS), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-100802-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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

Case No: 31029
DAS No: ~~R31295~~
R

Region:	3	Date Shipped:	10/9/2002
Project Code:		Carrier Name:	FedEx
Account Code:	02T03N50102D037ZLA00	Airbill:	819742449030
CERCLIS ID:	MDD985407196	Shipped to:	Ceimic Corporation 10 Dean Knauss Drive Narragansett RI 02882 (401) 782-8900
Spill ID:			
Site Name/State:	Elkton Farm/MD		
Project Leader:	Alex Cox		
Action:	Expanded Site Investigation/RI		
Sampling Co:	MDE		

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1			
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
[redacted]	Surface Water/ Dixon Wood DW	L/G	[redacted] (21), [redacted] (21), [redacted] (21)	1128 (Ice Only), 1129 (Ice Only), 1130 (HCL), 1131 (HCL) (4)	SW1	S: 10/9/2002	9:25	MC00P6	rec'd 10/30/02 ADP C00P7
[redacted]	Surface Water/ Gifawossen Tefera	L/G	[redacted] (21)	1173 (HCL), 1174 (HCL) (2)	SW8	S: 10/9/2002	12:55		Trip Blank
C00Q5	Surface Soil (0"-12")/ Magalie Gelin MG	L/G	BNA/PEST (21), VOA (21)	1178 (Ice Only), 1179 (Ice Only), 1180 (Ice Only) (3)	S1	S: 10/9/2002	10:00	MC00Q5	--
C00Q6	Surface Soil (0"-12")/ Phillip Anderson PA	L/G	BNA/PEST (21), VOA (21)	1182 (Ice Only), 1183 (Ice Only), 1184 (Ice Only) (3)	S10	S: 10/9/2002	11:50	MC00Q6	-- rec'd 10/31/02 ADP
C00Q7	Surface Soil (0"-12")/ Alex Cox	L/G	BNA/PEST (21), VOA (21)	1186 (Ice Only), 1187 (Ice Only), 1188 (Ice Only) (3)	S11	S: 10/9/2002	12:10	MC00Q7	-- C00Q8
C00R1	Surface Soil (0"-12")/ Phillip Anderson PA	L/G	BNA/PEST (21), VOA (21)	1202 (Ice Only), 1203 (Ice Only), 1204 (Ice Only), 1205 (Ice Only), 1206 (Ice Only), 1207 (Ice Only) (6)	S2	S: 10/9/2002	12:50	MC00R1	Spike
C00R3	Surface Soil (0"-12")/ Phillip Anderson PA	L/G	BNA/PEST (21), VOA (21)	1213 (Ice Only), 1214 (Ice Only), 1215 (Ice Only) (3)	S4	S: 10/9/2002	11:25	MC00R3	--
C00R5	Surface Soil (0"-12")/ Magalie Gelin MG	L/G	BNA/PEST (21), VOA (21)	1221 (Ice Only), 1222 (Ice Only), 1223 (Ice Only) (3)	S6	S: 10/9/2002	13:00	MC00R5	-- rec'd 10/31/02 ADP
C00R6	Surface Soil (0"-12")/ Phillip Anderson PA	L/G	BNA/PEST (21), VOA (21)	1225 (Ice Only), 1226 (Ice Only), 1227 (Ice Only) (3)	S7	S: 10/9/2002	11:00	MC00R6	-- C00R5

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C00R1, C00S0	Additional Sampler Signature(s): Magalie Gelin, Phillip Anderson, [illegible]	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDS), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-100902-0002

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

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

Case No: 31029
DAS No: ~~R31295~~
R

Region: 3	Date Shipped: 10/9/2002	Chain of Custody Record	Sampler Signature:
Project Code:	Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code: 02T03N50102D037ZLA00	Airbill: 819742449030	1	
CERCLIS ID: MDD985407196	Shipped to: Ceimic Corporation, 10 Dean Knauss Drive, Narragansett RI 02882, (401) 782-8900	2	
Spill ID:		3	
Site Name/State: Elkton Farm/MD		4	
Project Leader: Alex Cox			
Action: Expanded Site Investigation/RI			
Sampling Co: MDE			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
C00R8	Surface Soil (0"-12")/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1233 (Ice Only), 1234 (Ice Only), 1235 (Ice Only) (3)	S9	S: 10/9/2002	10:30	MC00R8	--
C00S0	Sediment/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1241 (Ice Only), 1242 (Ice Only), 1243 (Ice Only), 1244 (Ice Only), 1245 (Ice Only), 1246 (Ice Only) (6)	SED1	S: 10/9/2002	9:30	MC00S0	Spike
C00S6	Subsurface Soil (>12")/ Magalie Gelin	L/G	BNA/PEST (21), VOA (21)	1268 (Ice Only), 1269 (Ice Only), 1270 (Ice Only) (3)	SS1	S: 10/9/2002	9:40	MC00S6	--
C00S8	Subsurface Soil (>12")/ Alex Cox	L/G	BNA/PEST (21), VOA (21)	1276 (Ice Only), 1277 (Ice Only), 1278 (Ice Only) (3)	SS11	S: 10/9/2002	12:15	MC00S8	--
C00T2	Subsurface Soil (>12")/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1292 (Ice Only), 1293 (Ice Only), 1294 (Ice Only) (3)	SS2	S: 10/9/2002	12:55	MC00T2	Spike
C00T4	Subsurface Soil (>12") M. Gelin	L/G	BNA/PEST (21), VOA (21)	1300 (Ice Only), 1301 (Ice Only), 1302 (Ice Only) (3)	SS4	S: 10/9/2002	14:40	MC00T4	--
C00T6	Subsurface Soil (>12")/ Magalie Gelin	L/G	BNA/PEST (21), VOA (21)	1308 (Ice Only), 1309 (Ice Only), 1310 (Ice Only) (3)	SS6	S: 10/9/2002	13:00	MC00T6	--
C00T9	Subsurface Soil (>12")/ Phillip Anderson	L/G	BNA/PEST (21), VOA (21)	1320 (Ice Only), 1321 (Ice Only), 1322 (Ice Only) (3)	SS9	S: 10/9/2002	10:40	MC00T9	--

rec'd 10/31/02 COOR 5

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: C00R1, C00S0	Additional Sampler Signature(s): Magalie Gelin, Phillip Anderson	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles (SOLIDS), VOA_ = CLP TCL Volatiles (AQUEOUS)

TR Number: 3-592370820-100902-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

Appendix E

Laboratory Case Narratives

SDG Narrative

The enclosed data package is in response to USEPA, Region III, Case No. 31029, SDG No. C00P7, Contract No. 68-W-99-066. Under this SDG there are 9 VOA analyses, 8 SVOA analyses, and 8 Pest/PCB analyses for 8 soil samples received at Ceimic Corporation on October 9, 2002.

EPA ID:	CEIMIC ID:	Analysis:
C00P7	021030-01	VOA, SVOA, Pest/PCB
C00P8	021030-02	VOA, SVOA, Pest/PCB
C00P9	021030-03	VOA, SVOA, Pest/PCB
C00P9MS	021030-03MS	VOA, SVOA, Pest/PCB
C00P9MSD	021030-03MSD	VOA, SVOA, Pest/PCB
C00Q0	021030-04	VOA, SVOA, Pest/PCB
C00Q1	021030-05	VOA, SVOA, Pest/PCB
C00P6	021030-07	VOA, SVOA, Pest/PCB
C00Q3	021030-08	VOA

Sample Receipt

Cooler Temperatures upon receipt were 5° and 6°C.

Traffic reports were not relinquished and dated by sampler. An inorganic jar for sample C0059 was received by mistake. No sample was received for C00Q2. Dyncorp was notified.

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/MS Analysis

A. VOA

MS12 HP5973 GC/MS,25 m, 0.20mm ID, 1um, DB-624 capillary column
OI trap #10 (8cm Tenax, 8cm silica gel, 8cm carbon molecular sieve)

B. SVOA

MS4: HP5970B GC/MS,30 m,25 mm ID, ZB-5 fused silica capillary column

C. PEST/PCB

AD6: HP5890II using 30m x 0.53mm ID, DB5 megabore column (GC8)

AD7: HP5890II using 30m x 0.53mm ID, DB35 megabore column (GC8)

(3) Sample Information

An "x" qualifier is flagged by Target Thru-put software whenever the data is manually edited. The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. Manual integrations are performed on GC/MS and GC standards and samples when computer generated integration picks up only a portion of the chromatographic peak, due to software limitations. When manual integrations are required, these integrations are performed using sound defensible professional judgment, in order to report accurate data. Each manual integration is signed and dated, and reviewed by both the lab supervisor and the GC/MS Interpretation Specialist for GC/MS or the Organic Lab Manager for Pest/PCB.

A. VOA Fraction (Method CLP SOW OLM04.2)

The pH of the water samples was:

EPA ID:	Ceimic ID:	pH:
C00P7	021030-01	1
C00P8	021030-02	1
C00P9	021030-03	1
C00Q0	021030-04	1
C00Q1	021030-05	1
C00Q2	021030-06	1
C00P6	021030-07	1
C00Q3	021030-08	1

VOA sample C00Q2 (021030-06) was not received.

B. SVOA Fraction (Method CLP SOW OLM04.2)

The quantitation ion for bis-(2-chloroethyl)ether was changed to the secondary ion 63, rather than the primary ion 93, because there is interference with the ion 93 from aniline, which is present in the standard mix.

Sample C00P9MSD (021030-03MSD) had a high spike recovery for 4-Nitrophenol.

C. PEST/PCB Fraction (Method CLP SOW OLM04.2)

No non-compliances noted.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Alfred Kwolek

Alfred Kwolek,
Director of Client Support Services

10/28/02
Date

ALKANE NARRATIVE REPORT
Report date : 10/20/2002
SDG: C00P7

Client Sample ID: SBLKAR Lab Sample ID: S1012-B3A File ID: AD676

Compound	RT	Est. Conc.	Q
Unknown Cyclic Alkane	7.45	6	J

SDG Narrative

The enclosed data package is in response to USEPA, Region III, Case No. 31029, SDG No. C00Q8, Contract No. 68-W-99-066. Under this SDG there are 15 VOA analyses, 15 SVOA analyses, and 15 Pest/PCB analyses for 15 soil samples received at Ceimic Corporation on October 9, 2002. There are also 7 VOA analyses, 7 SVOA analyses, and 7 Pest/PCB analyses for 5 soil samples received at Ceimic Corporation on October 10, 2002.

EPA ID:	CEIMIC ID:	Analysis
C00Q8	021029-01	VOA, SVOA, Pest/PCB
C00Q9	021029-02	VOA, SVOA, Pest/PCB
C00R0	021029-03	VOA, SVOA, Pest/PCB
C00R2	021029-04	VOA, SVOA, Pest/PCB
C00R4	021029-05	VOA, SVOA, Pest/PCB
C00R7	021029-06	VOA, SVOA, Pest/PCB
C00S1	021029-07	VOA, SVOA, Pest/PCB
C00S2	021029-08	VOA, SVOA, Pest/PCB
C00S3	021029-09	VOA, SVOA, Pest/PCB
C00S4	021029-10	VOA, SVOA, Pest/PCB
C00S5	021029-11	VOA, SVOA, Pest/PCB
C00S9	021029-12	VOA, SVOA, Pest/PCB
C00T3	021029-13	VOA, SVOA, Pest/PCB
C00T5	021029-14	VOA, SVOA, Pest/PCB
C00T8	021029-15	VOA, SVOA, Pest/PCB
C00Q5	021029-16	VOA, SVOA, Pest/PCB
C00Q6	021029-17	VOA, SVOA, Pest/PCB
C00Q7	021029-18	VOA, SVOA, Pest/PCB
C00R1	021029-19	VOA, SVOA, Pest/PCB
C00R1MS	021029-19MS	VOA, SVOA, Pest/PCB
C00R1MSD	021029-19MSD	VOA, SVOA, Pest/PCB
C00R3	021029-20	VOA, SVOA, Pest/PCB

Sample Receipt

Cooler Temperatures upon receipt were 5° and 6°C.

Traffic reports were not relinquished and dated by sampler. An inorganic jar for sample C00S9 was received by mistake. No sample was received for C00Q2. Dyncorp was notified.

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/MS Analysis

A. VOA

MS17 HP5973 GC/MS, 30m, 0.25mm ID, 1.4 um, RTX-624 capillary column.
OI trap #10 (8cm Tenax, 8cm silica gel, 8cm carbon molecular sieve)

B. SVOA

MS1 HP5970B GC/MS,30 m,25 mm ID, ZB-5 fused silica capillary column

MS9 HP5970B GC/MS,30 m,25 mm ID, ZB-5 fused silica capillary column

C. PEST/PCB

AD17: HP5890II using 30m x 0.53mm ID, DB5 megabore column (GC6)

AD18: HP5890II using 30m x 0.53mm ID, DB35 megabore column (GC6)

(3) Sample Information

An "x" qualifier is flagged by Target Thru-put software whenever the data is manually edited. The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. Manual integrations are performed on GC/MS and GC standards and samples when computer generated integration picks up only a portion of the chromatographic peak, due to software limitations. When manual integrations are required, these integrations are performed using sound defensible professional judgment, in order to report accurate data. Each manual integration is signed and dated, and reviewed by both the lab supervisor and the GC/MS Interpretation Specialist for GC/MS or the Organic Lab Manager for Pest/PCB.

A. VOA Fraction (Method CLP SOW OLM04.2)

No non-compliances are noted.

B. SVOA Fraction (Method CLP SOW OLM04.2)

The quantitation ion for bis-(2-chloroethyl)ether was changed to the secondary ion 63, rather than the primary ion 93, because there is interference with the ion 93 from aniline, which is present in the standard mix.

The following sample was analyzed at a dilution as a result of GC/FID screening and the dark color and viscosity of the extract:

EPA ID:	CEIMIC ID:	DILUTION:
C00S4	021029-10	1:5

C. PEST/PCB Fraction (Method CLP SOW OLM04.2)

All samples were extracted and analyzed within their respective holding times.

Instrument Blank PIBLK0T/1T was injected more than 12 hrs. (12 hrs. 44 min.) after the preceding Instrument Blank PIBLK0S/1S.

TCX recovery is high on the DB35 column in sample C00R0 (167%), due to co-elution with the sample matrix.

TCX recovery is low on both columns in sample C00S9 (18%).

The following samples contained target analytes at concentrations above the linearity range of the initial calibration. They were diluted and re-analyzed:

Sample	Dil.Factor
C00Q9	100
C00R0	10

No other non-compliances were noted.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Alfred Kwolek,
Director of Client Support Services

10/30/02
Date

ALKANE NARRATIVE REPORT
Report date : 10/27/2002
SDG: C00Q8

Client Sample ID: C00Q8 Lab Sample ID: 021029-01 File ID: AD763

Compound	RT	Est. Conc.	Q
Straight-chain alkane	12.69	350	J
Straight-chain alkane	13.94	330	J

Client Sample ID: C00Q9 Lab Sample ID: 021029-02 File ID: AD764

Compound	RT	Est. Conc.	Q
Straight-chain alkane	13.92	450	J

Client Sample ID: C00R4 Lab Sample ID: 021029-05 File ID: AD766

Compound	RT	Est. Conc.	Q
Straight-chain alkane	12.64	250	J
Straight-chain alkane	13.87	310	J

Client Sample ID: C00S1 Lab Sample ID: 021029-07 File ID: IG022

Compound	RT	Est. Conc.	Q
Cyclic alkane	7.08	400	J

Client Sample ID: C00S2 Lab Sample ID: 021029-08 File ID: IG023

Compound	RT	Est. Conc.	Q
Straight-chain alkane	14.93	360	J
Branched Alkane	16.58	190	J

Client Sample ID: C00S3 Lab Sample ID: 021029-09 File ID: IG024

Compound	RT	Est. Conc.	Q
Branched Alkane	14.92	250	J
Branched Alkane	16.57	180	J

Client Sample ID: C00S4 Lab Sample ID: 021029-10 File ID: IG025

Compound	RT	Est. Conc.	Q
Straight-chain alkane	12.76	3300	J
Straight-chain alkane	13.70	2400	J
Straight-chain alkane	14.92	3900	J
Branched Alkane	16.57	5400	J
Straight-chain alkane	18.85	2700	J

Client Sample ID: C00R0 Lab Sample ID: 021029-03 File ID: IG027

Compound	RT	Est. Conc.	Q

Straight-chain alkane	10.60	78	J
Straight-chain alkane	11.31	110	J
Straight-chain alkane	12.37	100	J
Straight-chain alkane	12.77	140	J
Straight-chain alkane	13.71	89	J
Straight-chain alkane	14.27	83	J
Straight-chain alkane	14.94	740	J
Straight-chain alkane	15.69	170	J
Straight-chain alkane	18.86	140	J

Client Sample ID: C00T3 Lab Sample ID: 021029-13 File ID: AD777

Compound	RT	Est. Conc.	Q
Unknown Straight-Chain Alkane	11.79	300	J
Unknown Straight-Chain Alkane	12.71	660	J
Unknown Straight-Chain Alkane	13.95	570	J

Client Sample ID: C00R1 Lab Sample ID: 021029-19 File ID: AD783

Compound	RT	Est. Conc.	Q
Unknown Straight-Chain Alkane	14.07	350	J

Client Sample ID: C00R3 Lab Sample ID: 021029-20 File ID: AD784

Compound	RT	Est. Conc.	Q
Unknown Straight-Chain Alkane	13.98	480	J

SDG Narrative

The enclosed data package is in response to USEPA, Region III, Case No. 31029, SDG No. C00R5, Contract No. 68-W-99-066. Under this SDG there are 12 VOA analyses, 11 SVOA analyses, and 11 Pest/PCB analyses for 10 soil samples received at Ceimic Corporation on October 10, 2002. There is also 1 SVOA analysis and 1 Pest/PCB analysis for 1 soil samples received at Ceimic Corporation on October 16, 2002.

EPA ID:	CEIMIC ID:	Analysis
C00R5	021043-01	VOA, SVOA, Pest/PCB
C00R6	021043-02	VOA, SVOA, Pest/PCB
C00R8	021043-03	VOA, SVOA, Pest/PCB
C00S0	021043-04	VOA, SVOA, Pest/PCB
C00S0MS	021043-04MS	VOA, SVOA, Pest/PCB
C00S0MSD	021043-04MSD	VOA, SVOA, Pest/PCB
C00S6	021043-05	VOA, SVOA, Pest/PCB
C00S8	021043-06	VOA, SVOA, Pest/PCB
C00T2	021043-07	VOA, SVOA, Pest/PCB
C00T4	021043-08	VOA, SVOA, Pest/PCB
C00T6	021043-09	VOA, SVOA, Pest/PCB
C00T9	021043-10	VOA, SVOA, Pest/PCB

Sample Receipt

Cooler Temperatures upon receipt were 21° and 6°C.

The Traffic Reports were not relinquished by the sampler(s). For sample C00R5, Ceimic should have received VOA/BNA/PEST fractions; however, only the VOA fraction was received on 10/10/02. On 10/16/02 Ceimic received the BNA/PEST fraction of C00R5 and the BNA/PEST fraction for C00S0 at an elevated temperature of 21°C. Ceimic had already received the BNA/PEST fraction of C00S0 on 10/10/02. Dyncorp instructed Ceimic to analyze the BNA/PEST fraction of C00R5 as soon as possible.

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/MS Analysis

A. VOA

MS17 HP5973 GC/MS, 30m, 0.25mm ID, 1.4 um, RTX-624 capillary column.
OI trap #10 (8cm Tenax, 8cm silica gel, 8cm carbon molecular sieve)

B. SVOA

MS1 HP5970B GC/MS,30 m,25 mm ID, ZB-5 fused silica capillary column

C. PEST/PCB

AD6: HP5890II using 30m x 0.53mm ID, DB5 megabore column (GC8)

AD7: HP5890II using 30m x 0.53mm ID, DB35 megabore column (GC8)

(3) Sample Information

An "x" qualifier is flagged by Target Thru-put software whenever the data is manually edited. The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. Manual integrations are performed on GC/MS and GC standards and samples when computer generated integration picks up only a portion of the chromatographic peak, due to software limitations. When manual integrations are required, these integrations are performed using sound defensible professional judgment, in order to report accurate data. Each manual integration is signed and dated, and reviewed by both the lab supervisor and the GC/MS Interpretation Specialist for GC/MS or the Organic Lab Manager for Pest/PCB.

A. VOA Fraction (Method CLP SOW OLM04.2)

No non-compliances are noted.

B. SVOA Fraction (Method CLP SOW OLM04.2)

The quantitation ion for bis-(2-chloroethyl)ether was changed to the secondary ion 63, rather than the primary ion 93, because there is interference with the ion 93 from aniline, which is present in the standard mix.

The following sample was analyzed at a dilution as a result of GC/FID screening and the dark color and viscosity of the extract:

EPA ID:	CEIMIC ID:	DILUTION:
C00R5	021043-01	1:10

Samples C00S0MS (021043-04MS) and C00S0MSD (021043-04MSD) had a high %RPD for Acenaphthene.

C. PEST/PCB Fraction (Method CLP SOW OLM04.2)

All samples were extracted and analyzed within their respective holding times.

Tetrachloro-m-xylene recovery is low (22%) in sample C00T2 [021043-07].

Toxaphene is identified in sample C00R8 [021043-03] at a concentration within the reporting range of the initial calibration.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Alfred Kwolek

Alfred Kwolek,
Director of Client Support Services

10/30/02

Date

ALKANE NARRATIVE REPORT
Report date : 10/29/2002
SDG: C00R5

Client Sample ID: C00R6 Lab Sample ID: 021043-02 File ID: AD787

Compound	RT	Est. Conc.	Q
Unknown Straight-Chain Alkane	12.62	400	J
Unknown Straight-Chain Alkane	13.86	670	J

Client Sample ID: C00R8 Lab Sample ID: 021043-03 File ID: AD788

Compound	RT	Est. Conc.	Q
Unknown Straight-Chain Alkane	13.88	520	J

Client Sample ID: C00T6 Lab Sample ID: 021043-09 File ID: AD803

Compound	RT	Est. Conc.	Q
Straight-chain alkane	13.94	380	J