UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401
(301) 266-9180

DATE : May 7, 1991

SUBJECT : Region III Data QA Review

FROM : Theresa A. Simpson
Region III ESAT DPO (3ES23) DS

TO : Paula Retzler
Regional Project Manager (3HW25)

Attached is the organic data review for the Harvey Knott Site (Case 15838) 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.

Attachment

cc: Russell Meier, VERSAR
Edward Kantor, EMSL-LV
Regional CLP TPO: Debra Szaro Region: I Lab Code: CEIMIC

TID File: 03910218 Task 2352

AR303709

WESTON
2568A RIVA ROAD
SUITE 300
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DATE: April 26, 1991

SUBJECT: Organic Data Validation for Case 15838
Site: Harvey Knott

FROM: Laurie S. A. Brown
QAPP Chemist

Don O'Brien
Organic Data Reviewer

TO: Terry Simpson
ESAT Deputy Project Officer

THRU: Dan Dresser
ESAT Team Manager

OVERVIEW

Case 15838 consisted of seven (7) aqueous and two (2) soil samples submitted to CEIMIC for volatiles, semivolatiles and pesticide/PCB analyses. The sample set for this case included one (1) aqueous trip blank, that was analyzed for volatiles only, and two aqueous equipment blanks. The samples were analyzed as a Contract Laboratory Program (CLP) Routine Analytical Service (RAS).

SUMMARY

All samples were successfully analyzed for the complete target compound list. All instrument and method sensitivities were according to the Contract Laboratory Program (CLP) Routine Analytical Service (RAS) protocol.

MAJOR PROBLEM

- The response factor (RF) for 2-butanone was less than 0.05 in the volatile analyses continuing calibrations. The quantitation limits for this compound have been qualified "R". (See Table I in Appendix F.)

MINOR PROBLEMS

- The technical holding time for volatiles analysis was exceeded by two days for samples CBE28, CBE31, CBE32 & CBE33. For these four (4) samples the reported results and quantitation limits for the aromatic target compounds were qualified "L" & "UL", unless superseded by "J".

- Although no technical holding time has been established for soil samples, during the semivolatile analyses for samples CBE34 & CBE35 (soils), the aqueous extraction holding times were exceeded by three (3) days and the analysis holding times were exceeded by fourteen (14) and eleven (11) days respectively. The reported results and quantitation limits for these samples were qualified "J" & "UJ".

- The pesticide analyses of samples CBE28 and CBE31 (aqueous) exceeded the analysis holding time by four (4) days. Although no technical holding time has been established for soil samples for samples CBE34 & CBE35 (soils), the extraction holding times were exceeded by three (3) days and the analysis holding times were exceeded by four (4) days. The quantitation limits for these samples were qualified "J" & "UJ".

- Several compounds failed precision criteria during the volatiles and semivolatiles initial and continuing calibrations. The quantitation limits were qualified "UJ", unless superseded by the "R" qualifier, and any positive results were qualified "J" unless superseded by the "B" qualifier. (See Table I in Appendix F).

- For samples CBE28, CBE28MS, CBE28MSD, CBE29, & CBE30, the results for total xylenes were reported as "E", exceeded linear calibration range, but no re-analyses were reported. Results were qualified "J".

NOTES

- The maximum concentrations of the following compounds were determined in the trip blank, laboratory method blanks or equipment rinsate. All samples with concentrations of common laboratory contaminants less than ten times (<10X), or with concentrations of uncommon laboratory contaminants less than five times (<5X), the blank concentrations have been qualified "B" on the data summary.

Compound	Concentration
Methylene chloride *	3J ug/L
Acetone *	13 ug/L
2-Hexanone	2J ug/L
1,4-dichlorobenzene	48J ug/L

* Common laboratory contaminant

- Several non-spiked compounds, other than blank contaminants, were determined in the MS/MSD analyses of samples CBE28 and CBE34. The following table lists the results and precision estimate for those compounds.

Compound	Concentrations (ug/L) CBE28	MS	MSD	%RSD
Ethylbenzene	280L	260	280	4.2
Total xylenes	580J	530E	620E	7.8
2-Nitrophenol	ND	2J	2J	0#
Naphthalene	17	49	35	47.6
2-Methylnaphthalene	ND	3J	2J	40#

Compound	Concentrations (ug/Kg) CBE34	MS	MSD	%RSD
Tetrachloroethene	ND	2J	2J	0#
Naphthalene	460J	ND	800J	51#
Diethylphthalate	1900J	980J	1400	32.3
Di-n-butylphthalate	ND	ND	97J	IN
Butylbenzylphthalate	6000J	3500	3100	37.4
bis(2-Ethylhexyl) phthalate	12000J	7200	3600	55.5
Benzo(b)fluoranthene	ND	ND	84J	IN

ND = Compound was not detected
IN = Value is indeterminate
%RSD = Percent Relative Standard Deviation
= Value is Relative Percent Difference

- The reported Tentatively Identified Compounds (TIC's) of Appendix D have been reviewed and corrected during data validation. Compounds which were identified as blank contaminants have been crossed off the TIC Form I's. A number of TIC's in samples were identified by the laboratory as blank contaminants but these compounds did not appear on the Form I's for any of the blanks.

All data for Case 15838 were reviewed in accordance with the Functional Guidelines for Evaluating Organic Analyses with Modifications for use within Region III. The text of this report addresses only those problems affecting usability.

ATTACHMENTS

1) Appendix A - Glossary of Data Qualifiers

2) Appendix B - Data Summary. These include:
   (a) All positive results for target compounds with qualifier codes where applicable.
   (b) All unusable detection limits (qualified "R").

3) Appendix C - Results as Reported by the Laboratory for All Target Compounds

4) Appendix D - Reviewed and Corrected Tentatively Identified Compounds

5) Appendix E - Organic Regional Data Assessment Summary

6) Appendix F - Support Documentation

DCN: LB104A02.HK

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Appendix A

Glossary of Data Qualifiers

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATING 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 = Unreliable 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

Q = No analytical result.

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Appendix B

Data Summary Forms

DATA SUMMARY FORM: V O L A T I L E S I

WATER SAMPLES
(µg/L)

Site Name: HARVEY KNOTT

Case #: 15838 Sampling Date(s): 2-4,5-91

To calculate sample quantitation limit
(CRQL * Dilution Factor)

CRQL	COMPOUND	CBE 27		CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33					
	Sample No.	CBE 27		CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33					
	Dilution Factor	1.0		2.5		1.0		1.0		1.0		1.0		1.0					
	Location	TB-1		GW-1		GW-2		GW-3		SW-1		EB-1		EB-2					
10	Chloromethane																		
10	Bromomethane																		
10	*Vinyl Chloride																		
10	Chloroethane																		
5	*Methylene Chloride	6	B		4J	6	B	6	B		4J		4J		4J				
10	Acetone			42	6	12	6												
5	Carbon Disulfide																		
5	*1,1-Dichloroethene																		
5	1,1-Dichloroethane																		
5	*Total 1,2-Dichloroethene																		
5	Chloroform																		
5	*1,2-Dichloroethane		4J			3	J	3	J										
10	*2-Butanone																		
5	*1,1,1-Trichloroethane																		
5	*Carbon Tetrachloride																		
10	Vinyl Acetate		4J		4J		4J		4J		4J		4J		4J				
5	Bromodichloromethane																		

CRQL = Contract Required Quantitation Limit

*Action Level Exists

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*sed 07/90

AR303717

DATA SUMMARY FORM: V O L A T I L E S 2

WATER SAMPLES
(µg/L)

Site Name: HARVEY KNOTT

Case #: 15838 Sampling Date(s): 2-4, 5-91

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	CBE 27		CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33					
	Sample No.	CBE 27		CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33					
	Dilution Factor	1.0		2.5		1.0		1.0		1.0		1.0		1.0					
	Location	TB-1		GW-1		GW-2		GW-3		SW-1		EB-1		EB-2					
5	*1,2-Dichloropropane																		
5	Cis-1,3-Dichloropropane																		
5	Trichloroethene																		
5	Dibromochloromethane																		
5	1,1,2-Trichloroethane																		
5	*Benzene			50	L	9		6			UL		UL		UL				
5	Trans-1,3-Dichloropropene																		
5	Bromoform																		
10	4-Methyl-2-pentanone				UJ						UJ		UJ		UJ				
10	2-Hexanone				UJ						UJ		UJ		UJ				
5	*Tetrachloroethene																		
5	1,1,2,2-Tetrachloroethane																		
5	*Toluene				UL	2	J	2	J		UL		UL		UL				
5	*Chlorobenzene				UL						UL		UL		UL				
5	*Ethylbenzene			240	L	24		72			UL		UL		UL				
5	*Styrene				UL						UL		UL		UL				
5	*Total Xylenes			530	J	370	J	310	J		UL		UL		UL				

CRQL = Contract Required Quantitation Limit

*Action Level Exists

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R303718

AR303712

DATA SUMMARY FORM: V O L A T I L E S I

SOIL SAMPLES
(µg/Kg)

ite Name: HARVEY KNOTT

se #: 15838 Sampling Date(s): 2-5

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	CBE34		CBE35															
	Dilution Factor	1.0		1.0															
	% Moisture	21		28															
	Location	SD-1		SD-2															
CRQL	COMPOUND																		
10	Chloromethane																		
10	Bromomethane		UJ		UJ														
10	Vinyl Chloride																		
10	Chloroethane																		
5	Methylene Chloride	5	B	5	B														
10	Acetone	12	B		UJ														
5	Carbon Disulfide		UJ																
5	1,1-Dichloroethene																		
5	1,1-Dichloroethane																		
5	Total 1,2-Dichloroethene																		
5	Chloroform																		
5	1,2-Dichloroethane																		
10	2-Butanone		B		B														
5	1,1,1-Trichloroethane																		
5	Carbon Tetrachloride																		
10	Vinyl Acetate																		
5	Bromodichloromethane																		

*CRQL = Contract Required Quantitation Limit

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R303720

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Harvey Knott

Case #: 15838 Sampling Date(s): 2-5

SOIL SAMPLES
(µg/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	CBE 34		CBE 35	
	Sample No.	CBE 34		CBE 35	
	Dilution Factor	1.0		1.0	
	% Moisture	21		28	
	Location	SD-1		SD-2	
5	1,2-Dichloropropane				
5	Cis-1,3-Dichloropropene		11J		11J
5	Trichloroethene				
5	Dibromochloromethane				
5	1,1,2-Trichloroethane				
5	Benzene				
5	Trans-1,3-Dichloropropene				
5	Bromoform				
10	4-Methyl-2-pentanone				
10	2-Hexanone		4J		4J
5	Tetrachloroethene			2	5
5	1,1,2,2,-Tetrachloroethane				
5	Toluene				
5	Chlorobenzene				
5	Ethylbenzene				
5	Styrene				
5	Total Xylenes				

CRQL = Contract Required Quantitation Limit

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AR303721

DATA SUMMARY FORM: B N A S 1

WATER SAMPLES
(µg/L)

Site Name: HARVEY KNOTT

Case #: 5838 Sampling Date(s): 2-4, 5-91

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33							
	Sample No.	CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33							
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0							
	Location	GW-1		GW-2		GW-3		SW-1		EB-1		EB-2							
10	Phenol																		
10	bis(2-Chloroethyl)ether																		
10	2-Chlorophenol																		
10	*1,3-Dichlorobenzene									2	B								
10	*1,4-Dichlorobenzene																		
10	Benzyl Alcohol																		
10	1,2-Dichlorobenzene																		
10	2-Methylphenol			1	J														
10	bis(2-Chloroisopropyl)ether		11 J																
10	4-Methylphenol																		
10	N-Nitroso-di-n-propylamine																		
10	Hexachloroethane																		
10	Nitrobenzene																		
10	Isophorone																		
10	2-Nitrophenol																		
10	2,4-Dimethylphenol																		
50	Benzoic Acid																		
10	bis(2-Chloroethoxy)methane																		
10	2,4-Dichlorophenol																		
10	1,2,4-Trichlorobenzene																		
10	Naphthalene	17		11		6	J												
10	4-Chloroaniline																		

CRQL = Contract Required Quantitation Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

AR303722

DATA SUMMARY FORM: B N A S 2

WATER SAMPLES
(µg/L)

Site Name: HARVEY KNOTT

Case #: 15838 Sampling Date(s): 2-4, 5-91

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33							
	Sample No.	CBE 28		CBE 29		CBE 30		CBE 31		CBE 32		CBE 33							
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0							
	Location	GW-1		GW-2		GW-3		GW-1		EB-1		EB-2							
10	Hexachlorobutadiene																		
10	4-Chloro-3-methylphenol																		
10	2-Methylnaphthalene																		
10	Hexachlorocyclopentadiene		U3		U3		U3		U3		U3		U3						
10	2,4,6-Trichlorophenol																		
50	2,4,5-Trichlorophenol																		
10	2-Chloronaphthalene																		
50	2-Nitroaniline																		
10	Dimethylphthalate																		
10	Acenaphthylene																		
10	2,6-Dinitrotoluene																		
50	3-Nitroaniline																		
10	Acenaphthene																		
50	2,4-Dinitrophenol																		
50	4-Nitrophenol																		
10	Dibenzofuran				U3		U3		U3		U3		U3						
10	2,4-Dinitrotoluene																		
10	Diethylphthalate			4	5	2	5												
10	4-Chlorophenyl-phenylether																		
10	Fluorene																		
50	4-Nitroaniline																		
50	4,6-Dinitro-2-methylphenol																		

CRQL = Contract Required Quantitation Limit

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AR303072

DATA SUMMARY FORM: B N A S 3

WATER SAMPLES
(µg/L)

Site Name: HARVEY KNOTT

Case #: 15836 Sampling Date(s): 2-4,5-91

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	CBE 28		CEB 29		CEB 30		CEB-31		CEB 32		CBE 33							
	Sample No.	CBE 28		CEB 29		CEB 30		CEB-31		CEB 32		CBE 33							
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0							
	Location	GW-1		GW-2		GW-3		SW-1		EB-1		EB-2							
10	N-Nitrosodiphenylamine																		
10	4-Bromophenyl-phenylether																		
10	*Hexachlorobenzene																		
50	*Pentachlorophenol																		
10	Phenanthrene																		
10	Anthracene																		
10	Di-n-butylphthalate																		
10	Fluoranthene																		
10	Pyrene																		
10	Butylbenzylphthalate																		
20	3,3'-Dichlorobenzidine																		
10	Benzo(a)anthracene																		
10	Chrysene																		
10	bis(2-Ethylhexyl)phthalate		U5																
10	Di-n-octylphthalate																		
10	Benzo(b)fluoranthene																		
10	Benzo(k)fluoranthene																		
10	Benzo(a)pyrene																		
10	Indeno(1,2,3-cd)pyrene																		
10	Dibenz(a,h)anthracene		U5																
10	Benzo(g,h,i)perylene																		

CRQL = Contract Required Quantitation Limit

*Action Level Exists

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DATA SUMMARY FORM: B N A S 1

SOIL SAMPLES
(µg/Kg)

Site Name: HARVEY KNOTT

Case #: 15838 Sampling Date: 2-5

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture)/100)

CRQL	COMPOUND	CBE 34		CBE 35	
	Sample No.	CBE 34		CBE 35	
	Dilution Factor	6.0		9.0	
	% Moisture	18		21	
	Location	SD-1		SD-2	
330	Phenol		U		U
330	bis(2-Chloroethyl)ether		U		U
330	2-Chlorophenol		U		U
330	1,3-Dichlorobenzene		U		U
330	1,4-Dichlorobenzene	510			U
330	Benzyl Alcohol		U		U
330	1,2-Dichlorobenzene		U		U
330	2-Methylphenol		U		U
330	bis(2-Chloroisopropyl)ether		U		U
330	4-Methylphenol		U		U
330	N-Nitroso-di-n-propylamine		U		U
330	Hexachloroethane		U		U
330	Nitrobenzene		U		U
330	Isophorone		U		U
330	2-Nitrophenol		U		U
330	2,4-Dimethylphenol		U		U
1600	Benzoic Acid		U		U
330	bis(2-Chloroethoxy)methane		U		U
330	2,4-Dichlorophenol		U		U
330	1,2,4-Trichlorobenzene		U		U
330	Naphthalene	460	J	680	J
330	4-Chloroaniline				

CRQL = Contract Required Quantitation Limit

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ARCS 3724

DATA SUMMARY FORM: B N A S 2

e Name: HARVEY KNOTT

se #: 15878 Sampling Date(s): 2-5

SOIL SAMPLES
(µg/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

AR303725

	Sample No.	CBE 34		CBE 35	
	Dilution Factor	6.0		9.0	
	% Moisture	18		21	
	Location	SD-1		SD-2	
CRQL	COMPOUND				
330	Hexachlorobutadiene		U		U
330	4-Chloro-3-methylphenol		U		U
330	2-Methylnaphthalene		U		U
330	Hexachlorocyclopentadiene		U		U
330	2,4,6-Trichlorophenol		U		U
1600	2,4,5-Trichlorophenol		U		U
330	2-Chloronaphthalene		U		U
1600	2-Nitroaniline		U		U
330	Dimethylphthalate		U		U
330	Acenaphthylene		U		U
330	2,6-Dinitrotoluene		U		U
1600	3-Nitroaniline		U		U
330	Acenaphthene		U		U
1600	2,4-Dinitrophenol		U		U
1600	4-Nitrophenol		U		U
330	Dibenzofuran		U		U
330	2,4-Dinitrotoluene		U		U
330	Diethylphthalate	1900	J	8200	U
330	4-Chlorophenyl-phenylether		U		U
330	Fluorene		U		U
1600	4-Nitroaniline		U		U
1600	4,6-Dinitro-2methylphenol		U		U

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 3

SOIL SAMPLES
(µg/Kg)

Site Name: Harvey Knott

Case #: 15838 Sampling Date(s): 2-5

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	CBE 34		CBE 35	
	Sample No.	CBE 34		CBE 35	
	Dilution Factor	6.0		9.0	
	% Moisture	18		21	
	Location	SD-1		SD-2	
330	N-Nitrosodiphenylamine		U		U
330	4-Bromophenyl-phenylether		U		U
330	Hexachlorobenzene		U		U
1600	Pentachlorophenol		U		U
330	Phenanthrene		U		U
330	Anthracene		U		U
330	Di-n-butylphthalate		U		U
330	Fluoranthene		U		U
330	Pyrene		U		U
330	Butylbenzylphthalate	6000	J	15000	J
660	3,3'-Dichlorobenzidine		U		U
330	Benzo(a)anthracene		U		U
330	Chrysene		U		U
330	bis(2-Ethylhexyl)phthalate	12000	J	25000	J
330	Di-n-octylphthalate		U		U
330	Benzo(b)fluoranthene		U		U
330	Benzo(k)fluoranthene		U		U
330	Benzo(a)pyrene		U		U
330	Indeno(1,2,3-cd)pyrene		U		U
330	Dibenz(a,h)anthracene		U		U
330	Benzo(g,h)perylene		U		U

CRQL = Contract Required Quantitation Limit

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AR303726

DATA SUMMARY FORM: P E S T I C I D E S A N D P C B ' S

ite Name: HARNEY KNOTT

WATER SAMPLES
(µg/L)

ase #: 15838 Sampling Date(s): 2-4, 5-91

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

AR304727

CRQL	COMPOUND	CBE 28	CBE 29	CBE 30	CBE 31	CBE 32	CBE 33			
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0			
	Location	GW-1	GW-2	GW-3	SW-1	EB-1	EB-2			
0.05	alpha-BHC	UJ			UJ					
0.05	beta-BHC	UJ			UJ					
0.05	delta-BHC	UJ			UJ					
0.05	*gamma-BHC (Lindane)	UJ			UJ					
0.05	*Heptachlor	UJ			UJ					
0.05	Aldrin	UJ			UJ					
0.05	Heptachlor Epoxide	UJ			UJ					
0.05	Endosulfan I	UJ			UJ					
0.10	Dieldrin	UJ			UJ					
0.10	4,4'-DDE	UJ			UJ					
0.10	*Endrin	UJ			UJ					
0.10	Endosulfan II	UJ			UJ					
0.10	4,4'-DDD	UJ			UJ					
0.10	Endosulfan Sulfate	UJ			UJ					
0.10	4,4'-DDT	UJ			UJ					
0.50	*Methoxychlor	UJ			UJ					
0.10	Endrin Ketone	UJ			UJ					
0.50	*alpha-Chlordane	UJ			UJ					
0.50	*gamma-Chlordane	UJ			UJ					
1.0	*Toxaphene	UJ			UJ					
0.50	*Aroclor-1016	UJ			UJ					
0.50	*Aroclor-1221	UJ			UJ					
0.50	*Aroclor-1232	UJ			UJ					
0.50	*Aroclor-1242	UJ			UJ					
0.50	*Aroclor-1248	UJ			UJ					
1.0	*Aroclor-1254	UJ			UJ					
1.0	*Aroclor-1260	UJ			UJ					

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

vised 07/90

DATA SUMMARY FORM: P E S T I D E S A N D P C B ' S

ite Name: HARVEY KNOTT

ase #: 15838 Sampling Date(s): 2-5

SOIL SAMPLES
(µg/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	CBE 34	CBE 35							
	Dilution Factor	1.0	1.0							
	Location	SD-1	SD-2							
	% Moisture	18	21							
CRQL	COMPOUND									
8	alpha-BHC									
8	beta-BHC									
8	delta-BHC									
8	gamma-BHC (Lindane)									
8	Heptachlor									
8	Aldrin									
8	Heptachlor Epoxide									
8	Endosulfan I									
16	Dieldrin									
16	4,4'-DDE									
16	Endrin									
16	Endosulfan II									
16	4,4'-DDD									
16	Endosulfan Sulfate									
16	4,4'-DDT									
80	Methoxychlor									
16	Endrin Ketone									
80	alpha-Chlordane									
80	gamma-Chlordane									
160	Toxaphene									
80	Aroclor-1016									
80	Aroclor-1221									
80	Aroclor-1232									
80	Aroclor-1242									
80	Aroclor-1248									
160	Aroclor-1254									
160	Aroclor-1260									

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITION.
revised 07/90

AR303728

Appendix C

Results as Reported by the Laboratory
for all Target Compounds

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE27

Lab Name: CEIMIC CORP. Contract: 68D90029

Lab Code: CEIMIC Case No.: 15833 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2932

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

AR303730

VOLATILE ORGANICS ANALYSIS DATA SHEET

CBE28

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2948

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column: (pack/cap) PACK Dilution Factor: 2.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	42	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	50	
10061-02-6	Trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	290	
100-42-5	Styrene	12	U
1330-20-7	Total Xylenes	580	E

175

FORM I VOA 1/87 Rev.

AR303731

13

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE28

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4854

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	17	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1 1/87 Rev.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE28

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

atrix: (soil/water) WATER Lab Sample ID: 910066-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4854

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE29

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2936

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	3	J
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	9	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	74	
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	370	E

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FORM I VOA 1/87 Rev.

AR303734

1C

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CRE29

Lab Name: CEIMIC CORP. Contract: 68D80029

Lab Code: CEIMIC Case No.: 13309 SAS No.: _____ SDG No.: CRE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (Sep/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE29

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15338 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6881

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	1	J
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	16	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

C9E29

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15829 SAS No.: _____ SDG No.: C9E27

Matrix: (soil/water) WATER Lab Sample ID: 910066-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6881

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	4	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO

CBE29

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15939 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/16/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST

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AR303738

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE30

Lab Name: CEIMIC CORP. Contract: 68D80029

Lab Code: CEIMIC Case No.: 13833 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-04

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2837

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	3	J
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	8	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	76	
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	360	E

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE30

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6882

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	6	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1 1412 1/87 Rev.

AR303740

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE30

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6882

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CBE30

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 13336 SAS No.: _____ SDG No.: CBE37

Matrix: (soil/water) WATER Lab Sample ID: 910068-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/16/91

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST

1707 1/87 rev

AR303742

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

C3E31

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: C3E27

Matrix: (soil/water) WATER Lab Sample ID: 910066-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2845

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE31

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15329 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6883

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1 1/87 Rev.

AR303744

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE31

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6883

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1428

FORM I SV-2 1/87 Rev.

AR303745

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CBE31

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15329 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (Sep F/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST 1/87 Rev

AR303746

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE32

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15339 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2946

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA 1/87 Rev.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE32

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6879

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	2	J
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

FORM I SV-1 1/87 Rev.

AR303748

CBE32

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15938 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6879

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

PESTICIDE ORGANICS ANALYSIS DATA SHEET

C8E32

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15628 SAS No.: _____ SDG No.: C8E27

Matrix: (soil/water) WATER Lab Sample ID: 910068-0

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/16/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST

AR303750

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE33

Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15938 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910088-07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2947

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

:B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE33

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-07

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6880

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE33

Lab Name: CEIMIC CORP Contract: 68D90028

b Code: CEIMIC Case No.: 15938 SAS No.: _____ SDG No.: CBE27

matrix: (soil/water) WATER Lab Sample ID: 910066-07

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6980

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CBE33

Lab Name: CHEMIC CORP Contract: 68D90028

Lab Code: CHEMIC Case No.: 15328 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910068-07

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/15/91

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

C.1714

FORM I PEST 1/87 Rev.

AR303754

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE34

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15323 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C6947

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 21 Date Analyzed: 02/12/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	5	BJ
67-64-1	Acetone	12	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

1221

FORM I VOA 1/87 Rev.

AR303755

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBF34

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-08

Sample wt/vol: 30.5 (g/mL) G Lab File ID: D5280

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 18 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/31/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2400	U
111-44-4	bis(2-Chloroethyl)Ether	2400	U
95-57-8	2-Chlorophenol	2400	U
541-73-1	1,3-Dichlorobenzene	2400	U
106-46-7	1,4-Dichlorobenzene	370	BJ
100-51-6	Benzyl Alcohol	2400	U
95-50-1	1,2-Dichlorobenzene	2400	U
95-48-7	2-Methylphenol	2400	U
108-60-1	bis(2-Chloroisopropyl)Ether	2400	U
106-44-5	4-Methylphenol	2400	U
621-64-7	N-Nitroso-Di-n-Propylamine	2400	U
67-72-1	Hexachloroethane	2400	U
98-95-3	Nitrobenzene	2400	U
78-59-1	Isophorone	2400	U
88-75-5	2-Nitrophenol	2400	U
105-67-9	2,4-Dimethylphenol	2400	U
65-85-0	Benzoic Acid	12000	U
111-91-1	bis(2-Chloroethoxy)Methane	2400	U
120-83-2	2,4-Dichlorophenol	2400	U
120-82-1	1,2,4-Trichlorobenzene	2400	U
91-20-3	Naphthalene	460	J
106-47-8	4-Chloroaniline	2400	U
87-68-3	Hexachlorobutadiene	2400	U
59-50-7	4-Chloro-3-Methylphenol	2400	U
91-57-6	2-Methylnaphthalene	2400	U
77-47-4	Hexachlorocyclopentadiene	2400	U
88-06-2	2,4,6-Trichlorophenol	2400	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	2400	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethyl Phthalate	2400	U
208-96-8	Acenaphthylene	2400	U
606-20-2	2,6-Dinitrotoluene	2400	U

SEMIVOLATILE Organics ANALYSIS DATA SHEET

CBEG4

Lab Name: CEIMIC CORP Contract: 68D80028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBEG7

Matrix: (soil/water) SOIL Lab Sample ID: 910068-08

Sample wt/vol: 30.5 (g/mL) G Lab File ID: D5280

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 19 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/31/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	2400	U
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	2400	U
121-14-2	2,4-Dinitrotoluene	2400	U
84-66-2	Diethylphthalate	1900	J
7005-72-3	4-Chlorophenyl-phenylether	2400	U
86-73-7	Fluorene	2400	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-Methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	2400	U
101-55-3	4-Bromophenyl-phenylether	2400	U
118-74-1	Hexachlorobenzene	2400	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	2400	U
120-12-7	Anthracene	2400	U
84-74-2	Di-n-Butylphthalate	2400	U
206-44-0	Fluoranthene	2400	U
129-00-0	Pyrene	2400	U
85-68-7	Butylbenzylphthalate	6000	
91-94-1	3,3'-Dichlorobenzidine	4800	U
56-55-3	Benzo(a)Anthracene	2400	U
218-01-9	Chrysene	2400	U
117-81-7	bis(2-Ethylhexyl)Phthalate	12000	
117-84-0	Di-n-Octyl Phthalate	2400	U
205-99-2	Benzo(b)Fluoranthene	2400	U
207-08-9	Benzo(k)Fluoranthene	2400	U
50-32-8	Benzo(a)Pyrene	2400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2400	U
53-70-3	Dibenz(a,h)Anthracene	2400	U
191-24-2	Benzo(g,h,i)Perylene	2400	U

(1) - Cannot be separated from Diphenylamine

AR303757

C9E34

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: C9E27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09

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

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 18 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/21/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.8	U
319-85-7	beta-BHC	9.8	U
319-86-8	delta-BHC	9.8	U
58-89-9	gamma-BHC (Lindane)	9.8	U
76-44-8	heptachlor	9.8	U
309-00-2	Aldrin	9.8	U
1024-57-3	Heptachlor epoxide	9.8	U
959-98-8	Endosulfan I	9.8	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	19	U
72-43-5	Methoxychlor	96	U
53494-70-5	Endrin ketone	19	U
5103-71-9	alpha-Chlordane	96	U
5103-74-2	gamma-Chlordane	96	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	96	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	96	U
53469-21-9	Aroclor-1242	96	U
12672-29-6	Aroclor-1248	96	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

CBE35

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15303 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C6950

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 29 Date Analyzed: 02/12/91

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	3	BJ
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Total Xylenes	7	U

FORM I VOA 1/87 Rev.

CBE25

Lab Name: CEIMIC CORP Contract: 68D30029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09

Sample wt/vol: 30.2 (g/mL) G Lab File ID: D5257

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 21 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/29/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 9.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3800	U
111-44-4	bis(2-Chloroethyl)Ether	3800	U
95-57-8	2-Chlorophenol	3800	U
541-73-1	1,3-Dichlorobenzene	3800	U
106-46-7	1,4-Dichlorobenzene	3800	U
100-51-6	Benzyl Alcohol	3800	U
95-50-1	1,2-Dichlorobenzene	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	bis(2-Chloroisopropyl)Ether	3800	U
106-44-5	4-Methylphenol	3800	U
621-64-7	N-Nitroso-Di-n-Propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
65-85-0	Benzoic Acid	18000	U
111-91-1	bis(2-Chloroethoxy)Methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
120-82-1	1,2,4-Trichlorobenzene	3800	U
91-20-3	Naphthalene	680	J
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
59-50-7	4-Chloro-3-Methylphenol	3800	U
91-57-6	2-Methylnaphthalene	3800	U
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	18000	U
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	18000	U
131-11-3	Dimethyl Phthalate	3800	U
208-96-8	Acenaphthylene	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CB627

Matrix: (soil/water) SOIL Lab Sample ID: 910086-09

Sample wt/vol: 30.2 (g/mL) G Lab File ID: D5257

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 21 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/29/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 9.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	19000	U
83-32-9	Acenaphthene	3800	U
51-28-5	2,4-Dinitrophenol	19000	U
100-02-7	4-Nitrophenol	19000	U
132-64-9	Dibenzofuran	3800	U
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	8200	
7005-72-3	4-Chlorophenyl-phenylether	3800	U
86-73-7	Fluorene	3800	U
100-01-6	4-Nitroaniline	19000	U
534-52-1	4,6-Dinitro-2-Methylphenol	18000	U
86-30-6	N-Nitrosodiphenylamine (1)	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
87-86-5	Pentachlorophenol	19000	U
85-01-8	Phenanthrene	3800	U
120-12-7	Anthracene	3800	U
84-74-2	Di-n-Butylphthalate	3800	U
206-44-0	Fluoranthene	3800	U
129-00-0	Pyrene	3800	U
85-68-7	Butylbenzylphthalate	15000	
91-94-1	3,3'-Dichlorobenzidine	7500	U
56-55-3	Benzo(a)Anthracene	3800	U
218-01-9	Chrysene	3800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	25000	
117-84-0	Di-n-Octyl Phthalate	3800	U
205-99-2	Benzo(b)Fluoranthene	3800	U
207-08-9	Benzo(k)Fluoranthene	3800	U
50-32-8	Benzo(a)Pyrene	3800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	3800	U
53-70-3	Dibenz(a,h)Anthracene	3800	U
191-24-2	Benzo(g,h,i)Perylene	3800	U

(1) - Cannot be separated from Diphenylamine

AR303761

FORM I PEST-1 Organochlorine Pesticides and Aroclors

Lab Name: CEIMIC CORP	Contract: 68D90028
Lab Code: CEIMIC	Case No.: 15338
SAS No.:	SDG No.: CBE27
Matrix: (soil/water) SOIL	Lab Sample ID: 910068-09
Sample wt/vol: 30.2 (g/mL) G	Lab File ID:
Level: (low/med) LOW	Date Received: 02/06/91
% Moisture: not dec. 21 dec.	Date Extracted: 02/15/91
Extraction: (SepF/Cont/Sonc) SONC	Date Analyzed: 02/21/91
GPC Cleanup: (Y/N) N pH: 7.8	Dilution Factor: 1.00

CBE35

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	20	U
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	20	U
72-54-8	4,4'-DDD	20	U
1031-07-8	Endosulfan sulfate	20	U
50-29-3	4,4'-DDT	20	U
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin ketone	20	U
5103-71-9	alpha-Chlordane	100	U
5103-74-2	gamma-Chlordane	100	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	200	U
11096-82-5	Aroclor-1260	200	U

AR303762

Appendix D

Reviewed and Corrected
Tentatively Identified Compounds

AR303763

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE27

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2932

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1/87 Rev.

AR303764

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE28

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15339 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2948

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column (pack/cap) PACK Dilution Factor: 2.5

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE28

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4854

Level: (low/med) LOW Date Received: 02/08/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	C4-benzene isomer	12.37	11	BJ
2. 000000	C4-benzene isomer	12.45	18	BJ
3. 000000	C4-benzene isomer	13.12	18	BJ
4. 000000	Carboxylic acid	15.42	13	BJ
5. 000000	C9H8O isomer	15.60	6.0	BJ
6. 000000	Unknown	16.32	6.0	BJ
7. 000000	Unknown	17.64	5.0	BJ
8. 000000	C10H12O2 isomer	18.17	17	BJ
9. 000000	C10H12O2 isomer	18.47	7.0	BJ
10. 000000	Unknown	18.94	9.0	BJ
11. 000000	C10H12O2 isomer	19.12	12	BJ
12. 000000	Unknown	19.87	7.0	BJ
13. 000000	Unknown	20.14	5.0	BJ
14. 143077	Dodecanoic acid	20.37	15	J
15. 000000	Tetradecanoic acid	23.27	4.0	BJ
16. 000000	Unknown	25.72	5.0	BJ
17. 000000	Unknown	28.19	30	BJ
18. 000000	Unknown	33.22	11	BJ
19. 000000	Unknown	42.54	4.0	BJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE29

) Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2936

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

185

AR303767

FORM I VOA-TIC 1/87 Rev.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CBE29

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6881

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.0

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Unknown	6.37	59	J
2. 000000	Unknown	7.33	11	J
3. 000000	C9H18O isomer	8.23	37	J
4. 000000	C9H16O isomer	9.75	43	J
5. 000000	C9H18O isomer	10.07	20	J
6. 000000	Carboxylic acid	14.57	6.0	J
7. 000000	C9H8O isomer	14.64	9.0	J
8. 000000	Unknown	15.92	9.0	J
9. 000000	Unknown	16.89	4.0	J
10. 000000	C10H12O2 isomer	17.22	9.0	J
11. 112801	9-Octadecenoic acid	27.17	35	J
12. 000000	Unknown	29.37	5.0	J
13. 000000	Unknown	32.16	15	J
14. 000000	C26H38O2 isomer	33.02	4.0	J
15. 000000	Unknown	33.66	5.0	J
16. 000000	Unknown	37.87	7.0	J
17. 000000	Unknown	40.57	9.0	J

FORM I SV-TIC

0 1 389 1/87 Rev.

AR303768

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE30

Lab Name: CEIMIC CORP Contract: 68D80028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-04

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2937

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

AR303769

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE30

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6882

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Unknown	7.33	6.0	J
2. 000000	C9H19O isomer	8.22	17	J
3. 000000	C9H16O isomer	9.75	21	J
4. 000000	Unknown	10.04	8.0	J
5. 000000	Unknown	34.06	24	J
6. 000000	Unknown	38.34	80	J
7. 000000	Unknown	38.71	10	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE31

Lab Name: CEIMIC CORP Contract: 68D90023

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-05

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 52945

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE21

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910068-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6883

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Unknown	24.70	9.0	J
2. 000000	Unknown	27.14	7.0	J
3. 000000	Unknown	33.19	7.0	J
4. 000000	Unknown	34.67	8.0	J
5. 000000	Aliphatic hydrocarbon	34.79	8.0	J
6. 000000	Unknown	37.64	8.0	J
7. 000000	Unknown	38.24	22	J
8. 000000	Unknown	39.22	22	J
9. 000000	Unknown	40.87	4.0	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE32

Lab Name: CEIMIC CORP Contract: 62090029

Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910068-06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2946

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

SEMIVOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CBE3_

Contract: 68D90029

Lab Name: CEIMIC CORP

SAS No.: _____ SDG No.: CBE27

Lab Code: CEIMIC Case No.: 15838

Lab Sample ID: 910066-06

Matrix: (soil/water) WATER

Lab File ID: A6879

Sample wt/vol: 1000 (g/mL) ML

Date Received: 02/06/91

Level: (low/med) LOW

Date Extracted: 02/11/91

% Moisture: not dec. ____ dec. ____

Date Analyzed: 02/20/91

Extraction: (SepF/Cont/Sonc) SEPF

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E - .

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

C3E33

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15823 SAS No.: _____ SDG No.: C3E27

Matrix: (soil/water) WATER Lab Sample ID: 910066-07

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2947

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

TENTATIVELY IDENTIFIED COMPOUNDS

CBE33

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-07

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A6880

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SV-TIC 1/87

AR303776

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CBE34

Lab Name: CEIMIC CORP Contract: 62D90029

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C6947

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 21 Date Analyzed: 02/12/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

AR303777

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

C9E34

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: C9E27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-08

Sample wt/vol: 30.5 (g/mL) G Lab File ID: D5280

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 19 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/31/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 6.0

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 000000~~	~~C5H12 isomer~~	~~4.32~~	~~1200~~	~~BJ~~
~~2. 000000~~	~~Unknown~~	~~5.03~~	~~2400~~	~~BJ~~
~~3. 122422~~	~~4-Hydroxy-4-methyl-2-pentanone~~	~~5.58~~	~~55000~~	~~ABJ~~
4. 000000	Unknown	7.37	4600	BJ
5. 000000	Unknown	37.94	1700	BJ
6. 000000	Unknown	39.19	2200	BJ
7. 000000	Unknown	40.86	1400	BJ

AR303778

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CBE35

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15338 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C6950

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 29 Date Analyzed: 02/12/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1229

FORM I VOA-TIC 1/87 Rev.

AR303779

Lab Name: CEIMIC CORP Contract: 68D90028 Cases

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09

Sample wt/vol: 30.3 (g/mL) G Lab File ID: D5257

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 21 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/28/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 9.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Unknown	5.29	4500	BJ
~~2. 123-42-2~~	~~4-Hydroxy-4-methyl-2-pentanone~~	~~5.92~~	~~36000~~	~~ABJ~~
3. 000000	Unknown	7.58	6000	BJ
4. 000000	Unknown	39.69	6000	BJ
5. 000000	Unknown	41.11	4500	BJ

FORM I SV-TIC 1/87 Rev.

WESTON

Appendix E

Organic Regional Data Assessment Summary

TPO: [X] ACTION [ ] FYI

Region III

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO: 15838
SDG NO: CBE27
SOW: 2/88
NO. OF SAMPLES: 7

LABORATORY: CEIMIC
DATA USER: Paula Retzler
REVIEW COMPLETION DATE: 04/26/91
MATRIX: Aqueous

REVIEWER: ESAT

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	X	O	X	
2. GC-MS TUNE/GC PERFORMANCE	O	O	O	
3. INITIAL CALIBRATIONS	O	O	O	
4. CONTINUING CALIBRATION	X	X	O	
5. FIELD BLANKS (F=NOT APPLICABLE)	O	O	O	
6. LABORATORY BLANKS	O	O	O	
7. SURROGATES	O	O	O	
8. MATRIX SPIKE/DUPLICATES	O	O	O	
9. REGIONAL QC (F=NOT APPLICABLE)	F	F	F	
10. INTERNAL STANDARDS	O	O	O	
11. COMPOUND IDENTIFICATION	O	O	O	
12. COMPOUND QUANTITATION	OA	O	O	
13. SYSTEM PERFORMANCE	O	O	O	
14. OVERALL ASSESSMENT	O	O	O	

O = No problems or minor problems that do not affect data usability
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as estimated.
Z = More than about 5% of the data points are qualified as unusable.
A = TPO action requested; use in conjunction with one of the above codes.

TPO ACTION ITEMS: For samples CBE28, CBE28MS, CBE28MSD, CBE29, & CBE30, the results for total xylenes were reported as "E", estimated, but no re-analyses were reported.

AREAS OF CONCERN:

DOCUMENTATION ATTACHED (See Following Pages)

TPO: [ ] ACTION [X] FYI

Region III

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO: 15838
SDG NO: CBE27
SOW: 2/88
NO. OF SAMPLES: 2

LABORATORY: CEIMIC
DATA USER: Paula Retzler
REVIEW COMPLETION DATE: 04/26/91
MATRIX: Soil

REVIEWER: ESAT

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	O	M	M	
2. GC-MS TUNE/GC PERFORMANCE	O	O	O	
3. INITIAL CALIBRATIONS	X	X	O	
4. CONTINUING CALIBRATION	X	X	O	
5. FIELD BLANKS (F=NOT APPLICABLE)	O	O	O	
6. LABORATORY BLANKS	O	O	O	
7. SURROGATES	O	O	O	
8. MATRIX SPIKE/DUPLICATES	O	O	O	
9. REGIONAL QC (F=NOT APPLICABLE)	F	F	F	
10. INTERNAL STANDARDS	O	O	O	
11. COMPOUND IDENTIFICATION	O	O	O	
12. COMPOUND QUANTITATION	O	O	O	
13. SYSTEM PERFORMANCE	O	O	O	
14. OVERALL ASSESSMENT	X	X	X	

O = No problems or minor problems that do not affect data usability
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as estimated.
Z = More than about 5% of the data points are qualified as unusable.
A = TPO action requested; use in conjunction with one of the above codes.

TPO ACTION ITEMS:

AREAS OF CONCERN:

DOCUMENTATION ATTACHED (See Following Pages)

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 15838 SDG CBE27 Aqueous Samples

Item 1A The technical holding time for volatiles analysis was exceeded by two days for samples CBE28, CBE31, CBE32 & CBE33.

Item 1C The pesticide analyses of samples CBE28 and CBE31 exceeded the analysis holding time by four (4) days.

Item 3A One compound had a % RSD greater than 30.0 % during the initial calibration. (See Table 1 in Appendix F.)

Item 3B Several compound had % RSD's greater than 30 % during the initial calibration. (See Table 1 in Appendix F.)

Item 4A & B Several compounds had % D's greater than 25.0 % during continuing calibrations. (See Table 1 in Appendix F.)

Item 5A The maximum concentration of the following compound was determined in the trip blank.

Compound	Concentration
Methylene chloride	6 ug/L

Item 6A & B The maximum concentration of the following contaminant were determined in the laboratory method blanks.

Compound	Concentration
Methylene chloride *	3J ug/L
Acetone *	13 ug/L
2-Hexanone	2J ug/L
1,4-dichlorobenzene	48J ug/L

* common laboratory contaminant

Item 8B The MS/MSD analyses of sample CBE28 had one (1) out of twenty-two (22) spike recoveries outside of QC limits. (See Form III in Appendix F.)

Item 12 A & B

Several non-spiked compounds, other than blank contaminants, were determined in the initial and MS/MSD analyses of samples CBE28. The following table lists the results and precision estimate for those compounds.

Compound	Concentrations (ug/L) CBE28	MS	MSD	%RSD
Ethylbenzene	280L	260	280	4.2
Total xylenes	580J	530E	620E	7.8
2-Nitrophenol	ND	2J	2J	0#
Naphthalene	17	49	35	47.6
2-Methylnaphthalene	ND	3J	2J	40#

ND = Compound was not detected
IN = Value is indeterminate
%RSD = Percent Relative Standard Deviation
= Value is Relative Percent Difference

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY NOTES
Case 15838 SDG CBE27 Soil Samples

Item 1B For samples CBE34 & CBE35, the extraction holding times were exceeded by three (3) days and the analysis holding times were exceeded by fourteen (14) and eleven (11) days respectively.

Item 1C For samples CBE34 & CBE35 (soils), the extraction holding times were exceeded by three (3) days and the analysis holding times were exceeded by four (4) days.

Item 3A One compound had a % RSD greater than 30.0 % during the initial calibration. The response factor (RF) for 2-butanone was less than 0.05 in the volatile analyses initial calibrations. (See Table I in Appendix F.)

Item 3B Several compound had % RSD's greater than 30 % during the initial calibration. (See Table I in Appendix F.)

Item 4A & B Several compounds had % D's greater than 25.0 % during continuing calibrations. The response factor (RF) for 2-butanone was less than 0.05 in the volatile analyses continuing calibrations. (See Table I in Appendix F.)

Item 5A The maximum concentration of the following compound was determined in the trip blank.

Compound	Concentration
Methylene chloride	6 ug/L

Item 6A & B The maximum concentration of the following contaminant were determined in the laboratory method blanks.

Compound	Concentration
Methylene chloride *	3J ug/L
Acetone *	13 ug/L
2-Hexanone	2J ug/L
1,4-dichlorobenzene	48J ug/L

* common laboratory contaminant

Item 8B The MS/MSD analyses of sample CBE34 had two (2) out of twenty-two (22) spike recoveries outside of the QC limits. (See Form III in Appendix F.)

Item 12 A & B Several non-spiked compounds, other than blank contaminants, were determined in the initial and MS/MSD analysis of sample CBE34. The following table lists the results and precision estimate for those compounds.

Compound	Concentrations (ug/Kg)			
	CBE34	MS	MSD	%RSD
Tetrachloroethene	ND	2J	2J	0#
Naphthalene	460J	ND	800J	51.0#
Diethylphthalate	1900J	980J	1400	32.3
Di-n-butylphthalate	ND	ND	97J	IN
Butylbenzylphthalate	6000J	3500	3100	37.4
bis(2-Ethylhexyl) phthalate	12000J	7200	3600	55.5
Benzo(b)fluoranthene	ND	ND	84J	IN

ND = Compound was not detected
IN = Value is indeterminate
%RSD = Percent Relative Standard Deviation
= Value is Relative Percent Difference

WESTON

Appendix F

Support Documentation

TABLE I

page 1 of 14

ENVIRONMENTAL PROTECTION AGENCY REGION III

CALIBRATION OUTLIERS

VOLATILE HSL COMPOUNDS

CASE/SAS No. 15838 CONTRACTOR CGTMIC

Instruments	Init. Cal			Cont. Cal			Cont. Cal			Cont. Cal			Cont. Cal		
Date Time:	1/17/91			2/12/91 1046			2/13/91 1006								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane					44.5	C		33.5	C						
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone		34.2	Ft		27.4	Ct									
Carbon Disulfide					35.4	C		26.4	C						
1,1-Dichloroethene															
1,1-Dichloroethane															
Total 1,2-Dichloroethene															
Chloroform															
1,2-Dichloroethane															
2-Butanone	0.046		F	0.042		F		32.6	C						
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Cis-1,3-Dichloropropene					28.4	C		25.6	C						
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
Trans-1,3-Dichloropropene															
Bromoform															
4-Methyl-2-pentanone															
2-Hexanone					33.1	Ct									
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
Total Xylenes															

AFFECTED SAMPLES:	all samples this page	CBE 34	CBE 34MS		
		CBE 35	CBE 34MSD		
		VBLK03	VBLK04		

Reviewer Initials/Date: LSB 4/12

* See last page of this table for DEFINITION OF CODES.

AR303789

TABLE I
ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS No. 15838 CONTRACTOR CEIMIC

Instruments	Unit Da			Cont Da			Cont Da			Cont Da			Cont Da		
Date/Time	2/7/91			2/12/91	1114		2/13/91	1031							
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride		36.7	It												
Acetone															
Carbon Disulfide															
1,1-Dichloroethene															
1,1-Dichloroethane															
Total 1,2-Dichloroethene															
Chloroform															
1,2-Dichloroethane					27.4	C									
2-Butanone															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate					32.6	C		39.4	C						
Bromodichloromethane															
1,2-Dichloropropane															
Cis-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
Trans-1,3-Dichloropropene															
Bromoform															
4-Methyl-2-Pentanone								26.2	C						
2-Hexanone								34.7	Ct						
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
Total Xylenes															

	all	CBE 27	CBE 31		
AFFECTED	samples	CBE 29	CBE 32		
SAMPLES:	this	CBE 30	CBE 33		
	page	VBLK 01	CBE 28		
Reviewer			CBE 28 MS		
Initials/Date: VSAB 4/14			CBE 28 MSD		
			VBLK 02		

* See last page of this table for DEFINITION OF CODES.

AR303790

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE ECL COMPOUNDS (Part 1 of 2)

CASE CAS No. 15838 CONTRACTOR CEMWL

INSTRUMENT	Calib. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	9-11-90			2-20-91 2071											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(2-Chloroethyl)ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-Chloroisopropyl)ether															
4-Methylphenol															
N-Nitroso-di-n-propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic acid															
bis(2-Chloroethoxy)methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene				29.3	C										
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethylphthalate															
Acenaphthylene															
2,6-Dinitrotoluene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol				28.1	C										

AFFECTED SAMPLES:

CBE 32
CBE 33
CBE 29
CBE 30
CBE 31

Reviewer Initials/Date: LSP 4-18

AR303791

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 15836 CONTRACTOR CETMEC

Instrument	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	9-11-90			2-20-90 2007											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3-Dichlorobenzidine															
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate															
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene															
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene															
Dibenz(a,h)anthracene															
Benzo(g,h,i)perylene															

AFFECTED SAMPLES:

CBE 32				
CBE 33				
CBE 29				
CBE 30				
CBE 31				

Reviewer Initials/Date: LSB 4-18

* See last page of this table for DEFINITION OF CODES.

AR303792

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HEL COMPOUNDS (Part 1 of 2)

CASE/SAS No. 15838 CONTRACTOR CEDMCC

Instrument#	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	12-27-90			2-18-91		1428	2-21-91		1337	2-22-91		1244	3-28-91		1632
	RF	%RSD	#	RF	%D	#	RF	%D	#	RF	%D	#	RF	%D	#
Phenol															
bis(2-Chloroethyl)ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl alcohol														22.1	C
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-Chloroisopropyl)ether					31.7	C		49.2	C	47.4	C			63.3	C
4-Methylphenol														25.6	C
N-Nitroso-di-n-propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic acid					27.9	C				26.3	C				
bis(2-Chloroethoxy)methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene		37.0	I					34.7	C					69.4	C
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethylphthalate															
Acenaphthylene															
2,6-Dinitrotoluene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol		34.8	I											46.5	C
4-Nitrophenol															

AFFECTED SAMPLES:	all	SBLK 01	CBE 28	SBLK 03	CBE 35
	53mp/s.1		CBE 28 MS		CBE 34 MSD
	thro		CBE 28 MSD		
	page				

Reviewer
Initials/Date: LCHO 4-11

AR303793

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 15838 CONTRACTOR CGI MIC

Instrument	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	12-27-90			2-18-91		1438	2-21-91		1337	2-27-91		1244	3-28-91		1632
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3-Dichlorobenzidine															
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate								28.0	C						
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene															
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene														25.8	C
Dibenz(a,h)anthracene					25.9	C		25.8	C					32.7	C
Benzo(g,h,i)perylene											29.1	C		31.0	C
	all			SBLK01			CBE28			SBLK03			CBE35		
AFFECTED SAMPLES:	Samples						CBE28MS						CBE34MSD		
	this						CBE28MSD								
	page														

Reviewer
Initials/Date: LSB 4-18

* See last page of this table for DEFINITION OF CODES.

AR303794

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 1 of 2)

CASE/SAS No. 15838 CONTRACTOR CEI MSC

Instrument#	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	12-30-90														
	RF	%RSD	#	RF	%D	#	RF	%D	#	RF	%D	#	RF	%D	#
Phenol															
bis(2-Chloroethyl)ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-Chloroisopropyl)ether					41.3	C									
4-Methylphenol															
N-Nitroso-di-n-propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic acid					28.6	C									
bis(2-Chloroethoxy)methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene		37.0	I		36.0	C									
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethylphthalate															
Acenaphthylene															
2,6-Dinitrotoluene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol		34.8	I		61.4	C									
4-Nitrophenol					29.2	C									

AFFECTED SAMPLES: all samples this page

CBE 34

Reviewer Initials/Date: LSAB 4-18

AR303795

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 15833 CONTRACTOR CET-MIL

Instrument	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	12-29-90														
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline					34.0	C									
4,6-Dinitro-2-methylphenol					43.4	C									
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3-Dichlorobenzidine															
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate															
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene															
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene															
Dibenz(a,h)anthracene															
Benzo(g,h,i)perylene															

AFFECTED SAMPLES: All samples this page CB6 34

Reviewer Initials/Date: LSB 4-15

* See last page of this table for DEFINITION OF CODES.

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE BNA COMPOUNDS (Part 1 of 2)

CASE CAS No. 15838 CONTRACTOR CEIMEC

Instrument	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	12-22-91			3-30-91 1530			4-2-91 1204			4-3-91 1051					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(2-Chloroethyl)ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl alcohol					50.6	C		82.7	C		84.3	C			
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-Chloroisopropyl)ether															
4-Methylphenol															
N-Nitroso-di-n-propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic acid					17.1	C		32.6	C		58.0	C			
bis(2-Chloroethoxy)methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene					32.3	C		50.0	C		38.1	C			
Hexachlorocyclopentadiene					40.7	C		77.6	C		61.8	C			
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethylphthalate															
Acenaphthylene															
2,6-Dinitrotoluene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol					37.8	C		36.8	C		54.6	C			
4-Nitrophenol					61.4	C		52.1	C		40.0	C			
				SBLK 02			CBL 34 MS			SBLK04					

AFFECTED SAMPLES:

Reviewer Initials/Date: LSB 4-10

* See last page of this table for DEFINITION OF CODES.

TABLE I

ENVIRONMENTAL PROTECTION AGENCY REGION III
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS (Part 2 of 2)

CASE/SAS No. 15838 CONTRACTOR CEIMIC

Instrument	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	3-2-91			3-30-91		1530	4-1-91		1206	4-3-91		1051			
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Dibenzofuran															
2,4-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline					29.8	C									
4,6-Dinitro-2-methylphenol											25.3	C			
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
3,3-Dichlorobenzidine															
Benzo(a)anthracene															
Chrysene															
bis(2-Ethylhexyl)phthalate															
Di-n-octylphthalate															
Benzo(b)fluoranthene															
Benzo(k)fluoranthene															
Benzo(a)pyrene															
Indeno(1,2,3-cd)pyrene											30.2	C			
Dibenz(a,h)anthracene															
Benzo(g,h,i)perylene											31.8	C			
				SBLK02			CBE34MS			SBLK04					

AFFECTED SAMPLES:

Reviewer Initials/Date: LSAB 4-18

* See last page of this table for DEFINITION OF CODES.

AR303798

WESTON

DEFINITION OF CODES USED IN TABLE I

I = %RSD exceeded 30% in the initial calibration, positive results are qualified "J", and quantitation limits are qualified "UJ".

C = %D exceeded 25% in the continuing calibration. Positive results are qualified "J" and quantitation limits are qualified "UJ".

F = RF less than 0.05 in all calibrations. All quantitation limits are qualified "R".

+ = The "B" qualifier denoting blank contamination supersedes the qualifier issued in this table.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15836 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS3 Calibration Date(s): 01/17/91 01/17/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = C6574 RRF50 = C6573
RRF100= C6575 RRF150= C6576 RRF200= C6577

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.819	0.936	0.795	0.632	0.714	0.779	14.7#
Bromomethane	0.996	1.074	0.941	0.777	0.814	0.920	13.5
Vinyl Chloride *	0.986	0.893	0.995	0.793	0.862	0.906	9.4*
Chloroethane	0.605	0.571	0.578	0.463	0.503	0.544	10.7
Methylene Chloride	1.548	1.398	1.335	1.316	1.311	1.382	7.2
Acetone	0.207	0.294	0.175	0.131	0.144	0.190	34.2
Carbon Disulfide	2.830	2.762	2.913	2.673	2.617	2.759	4.3
1,1-Dichloroethene *	1.141	1.012	1.013	1.047	0.978	1.038	6.1*
1,1-Dichloroethane #	2.613	2.538	2.396	2.472	2.429	2.489	3.5#
1,2-Dichloroethene (total)	1.238	1.157	1.186	1.105	1.128	1.163	4.5
Chloroform *	3.014	2.863	2.686	2.753	2.711	2.805	4.8*
1,2-Dichloroethane	1.837	1.704	1.853	1.705	1.868	1.793	4.6
2-Butanone	0.044	0.046	0.052	0.041	0.047	0.046	8.[illegible]
1,1,1-Trichloroethane	0.675	0.595	0.659	0.622	0.647	0.640	4
Carbon Tetrachloride	0.593	0.615	0.556	0.544	0.575	0.577	4.[illegible]
Vinyl Acetate	0.380	0.402	0.389	0.271	0.377	0.364	14.5
Bromodichloromethane	0.646	0.582	0.659	0.618	0.686	0.638	6.2
1,2-Dichloropropane *	0.346	0.308	0.319	0.317	0.348	0.329	5.5*
cis-1,3-Dichloropropene	0.588	0.533	0.579	0.538	0.615	0.571	6.1
Trichloroethene	0.536	0.456	0.445	0.429	0.451	0.463	9.1
Dibromochloromethane	0.778	0.693	0.726	0.718	0.785	0.740	5.4
1,1,2-Trichloroethane	0.302	0.254	0.280	0.257	0.285	0.276	7.3
Benzene	0.721	0.688	0.729	0.682	0.754	0.715	4.2
Trans-1,3-Dichloropropene	0.225	0.208	0.235	0.207	0.252	0.225	8.4
Bromoform #	0.587	0.556	0.664	0.541	0.636	0.597	8.8#
4-Methyl-2-Pentanone	0.223	0.187	0.243	0.135	0.244	0.206	22.4
2-Hexanone	0.151	0.112	0.164	0.125	0.157	0.142	15.7
Tetrachloroethene	0.709	0.581	0.602	0.657	0.597	0.629	8.4
1,1,2,2-Tetrachloroethane #	0.413	0.348	0.464	0.385	0.464	0.415	12.2#
Toluene *	0.584	0.527	0.505	0.554	0.563	0.547	5.7*
Chlorobenzene #	0.940	0.830	0.832	0.922	0.919	0.889	6.0#
Ethylbenzene *	0.376	0.335	0.376	0.361	0.378	0.365	5.0*
Styrene	0.714	0.662	0.775	0.721	0.760	0.726	6.1
Total Xylenes	0.444	0.413	0.466	0.437	0.445	0.441	4.3
Toluene-d8	0.935	0.898	0.764	0.929	0.772	0.860	9.9
BFB	0.837	0.849	0.810	0.763	0.749	0.802	5.5
1,2-Dichloroethane-d4	1.586	1.503	1.555	1.377	1.361	1.476	7.0

FORM VI VOA

AR303800

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 13833 SAS No.: _____ SDG No.: CB627

Instrument ID: M92 Calibration date: 02/12/91 Time: 1046

Lab File ID: C3341 Init. Calib. Date(s): 01/17/91 01/17/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Chloromethane #	0.778	0.884	12.2	#
Bromomethane	0.920	1.329	-44.5	
Vinyl Chloride *	0.906	0.989	-9.2	*
Chloroethane	0.544	0.673	-23.7	
Methylene Chloride	1.382	1.291	6.6	
Acetone	0.190	0.337	-77.4	
Carbon Disulfide	2.758	3.725	-35.0	
1,1-Dichloroethene *	1.138	1.253	-20.7	*
1,1-Dichloroethane #	2.489	2.505	-0.6	#
1,2-Dichloroethene (total)	1.163	1.395	-20.0	
Chloroform *	2.805	2.960	-5.5	*
1,2-Dichloroethane	1.730	1.785	3.2	
2-Butanone	0.046	0.042	8.7	
1,1,1-Trichloroethane	0.640	0.633	1.1	
Carbon Tetrachloride	0.577	0.622	-7.8	
Vinyl Acetate	0.264	0.311	14.6	
Bromodichloromethane	0.838	0.738	-20.4	
1,2-Dichloropropane *	0.328	0.315	4.0	*
cis-1,3-Dichloropropene	0.571	0.733	-28.4	
Trichloroethene	0.463	0.504	-8.9	
Dibromochloromethane	0.740	0.689	6.9	
1,1,2-Trichloroethane	0.276	0.257	6.9	
Benzene	0.715	0.752	-5.2	
Trans-1,3-Dichloropropene	0.225	0.196	12.9	
Bromoform #	0.597	0.562	5.9	#
4-Methyl-2-Pentanone	0.206	0.162	21.4	
2-Hexanone	0.142	0.095	33.1	
Tetrachloroethene	0.629	0.688	-9.4	
1,1,2,2-Tetrachloroethane #	0.415	0.350	15.7	#
Toluene *	0.547	0.634	-15.9	*
Chlorobenzene #	0.889	0.962	-8.2	#
Ethylbenzene *	0.365	0.400	-9.6	*
Styrene	0.726	0.760	-4.7	
Total Xylenes	0.441	0.490	-11.1	
Toluene-d8	0.860	0.958	-11.4	
BFB	0.802	0.852	-6.4	
1,2-Dichloroethane-d4	1.478	1.413	4.3	

CBE 34
CBE 35
VBLK 03

FORM VII VOA

C.1258 1/87 Rev.

AR303801

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D80029

Lab Code: CEIMIC Case No.: 13808 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS2 Calibration date: 02/13/91 Time: 1006

Lab File ID: C8853 Init. Calib. Date(s): 01/17/91 01/17/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF30 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

CONFOUND	RRF	RRF30	%D	
Chloromethane #	0.779	0.669	14.1	#
Bromomethane	0.920	1.228	33.5	
Vinyl Chloride *	0.906	0.940	-3.8	*
Chloroethane	0.544	0.629	-15.1	
Methylene Chloride	1.382	1.204	12.9	
Acetone	0.180	0.216	-19.7	
Carbon Disulfide	2.759	3.588	30.0	
1,1-Dichloroethene *	1.038	1.244	-19.8	*
1,1-Dichloroethane #	1.489	1.504	-0.6	#
1,2-Dichloroethene (total)	1.162	1.372	-18.0	
Chloroform *	1.805	1.848	-2.0	*
1,2-Dichloroethane	1.792	1.829	-2.0	
2-Butanone	0.046	0.061	32.6	
1,1,1-Trichloroethane	0.640	0.566	11.6	
Carbon Tetrachloride	0.577	0.441	23.6	
Vinyl Acetate	0.364	0.340	6.6	
Bromodichloromethane	0.628	0.720	-12.8	
1,2-Dichloropropane *	0.228	0.308	6.1	*
cis-1,3-Dichloropropene	0.571	0.717	25.6	
Trichloroethene	0.463	0.473	-2.2	
Dibromochloromethane	0.740	0.642	13.2	
1,1,2-Trichloroethane	0.276	0.259	6.2	
Benzene	0.715	0.689	3.6	
Trans-1,3-Dichloropropene	0.225	0.191	15.1	
Bromoform #	0.597	0.585	2.0	#
4-Methyl-2-Pentanone	0.206	0.219	-6.3	
2-Hexanone	0.142	0.129	9.2	
Tetrachloroethene	0.629	0.627	0.3	
1,1,2,2-Tetrachloroethane #	0.415	0.438	-5.5	#
Toluene *	0.547	0.627	-14.6	*
Chlorobenzene #	0.889	0.934	-5.1	#
Ethylbenzene *	0.365	0.389	-6.6	*
Styrene	0.726	0.732	-0.8	
Total Xylenes	0.441	0.478	-8.4	
Toluene-d8	0.860	0.948	-10.2	
BFB	0.802	0.875	-9.1	
1,2-Dichloroethane-d4	1.476	1.480	-0.3	

CBE 34 MS
CBE 34 MSD
UBLK04

FORM VII VOA

 1/87 Rev.

AR303802

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: C8E27

Instrument ID: MS5 Calibration Date(s): 02/07/91 02/07/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = E2829 RRF50 = E2824
RRF100= E2826 RRF150= E2827 RRF200= E2828

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.496	0.408	0.459	0.423	0.397	0.437	9.3#
Bromomethane	1.158	0.964	1.158	0.970	0.920	1.034	11.1
Vinyl Chloride *	0.820	0.722	0.832	0.801	0.722	0.779	6.9*
Chloroethane	0.595	0.480	0.557	0.544	0.490	0.533	9.0
Methylene Chloride	1.615	0.964	1.053	0.986	0.942	1.112	25.6
Acetone	0.440	0.219	0.233	0.211	0.226	0.266	36.7
Carbon Disulfide	3.055	2.647	3.064	2.940	2.512	2.844	8.8
1,1-Dichloroethene *	1.110	0.909	1.051	0.958	0.889	0.983	9.6*
1,1-Dichloroethane #	2.110	1.655	2.056	1.894	1.818	1.907	9.6#
1,2-Dichloroethene (total)	1.166	0.794	0.903	0.965	1.052	0.976	14.5
Chloroform *	2.768	2.221	2.749	2.501	2.363	2.520	9.5*
1,2-Dichloroethane	1.820	1.236	1.591	1.590	1.736	1.595	14.0
2-Butanone	0.075	0.075	0.075	0.073	0.082	0.076	4.6
1,1,1-Trichloroethane	0.747	0.531	0.657	0.687	0.700	0.664	12.2
Carbon Tetrachloride	0.739	0.633	0.786	0.737	0.650	0.709	9.2
Vinyl Acetate	0.317	0.312	0.329	0.331	0.322	0.322	2.5
Bromodichloromethane	0.835	0.614	0.710	0.780	0.805	0.749	11.8
1,2-Dichloropropane *	0.362	0.286	0.339	0.329	0.309	0.325	8.9*
cis-1,3-Dichloropropene	0.829	0.607	0.711	0.789	0.825	0.752	12.5
Trichloroethene	0.527	0.452	0.493	0.492	0.445	0.482	7.0
Dibromochloromethane	0.960	0.815	0.935	0.909	0.848	0.893	6.8
1,1,2-Trichloroethane	0.438	0.356	0.412	0.397	0.380	0.397	7.8
Benzene	0.763	0.568	0.645	0.713	0.747	0.687	11.7
Trans-1,3-Dichloropropene	0.269	0.194	0.230	0.239	0.264	0.239	12.6
Bromoform #	0.818	0.635	0.686	0.757	0.852	0.750	12.0#
4-Methyl-2-Pentanone	0.385	0.299	0.312	0.286	0.305	0.317	12.3
2-Hexanone	0.272	0.199	0.206	0.196	0.206	0.216	14.7
Tetrachloroethene	0.573	0.500	0.543	0.536	0.483	0.527	6.8
1,1,2,2-Tetrachloroethane #	0.679	0.498	0.539	0.569	0.700	0.597	14.8#
Toluene *	0.633	0.455	0.515	0.565	0.606	0.555	12.9*
Chlorobenzene #	1.043	0.864	0.987	0.951	0.889	0.947	7.7#
Ethylbenzene *	0.457	0.314	0.378	0.408	0.433	0.398	13.9*
Styrene	0.911	0.727	0.896	0.868	0.772	0.835	9.7
Total Xylenes	0.608	0.485	0.596	0.585	0.510	0.557	10.0
Toluene-d8	1.003	1.069	0.974	0.986	0.847	0.976	8.3
BFB	0.726	0.772	0.704	0.680	0.611	0.699	8.5
1,2-Dichloroethane-d4	1.532	1.426	1.506	1.402	1.299	1.433	6.4

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15338 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS2 Calibration date: 02/10/91 Time: 1114

Lab File ID: E2924 Init. Calib. Date(s): 02/07/91 02/07/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.427	0.474	-8.5	#
Bromomethane		1.034	1.242	-20.1	
Vinyl Chloride	*	0.779	0.836	-7.3	*
Chloroethane		0.533	0.561	-5.3	
Methylene Chloride		1.112	1.023	7.1	
Acetone		0.266	0.272	-2.3	
Carbon Disulfide		2.844	2.827	0.6	
1,1-Dichloroethene	*	0.882	0.944	4.0	*
1,1-Dichloroethane	#	1.907	1.854	2.8	#
1,2-Dichloroethene (total)		0.978	1.118	-14.3	
Chloroform	*	2.520	2.698	-7.1	*
1,2-Dichloroethane		1.985	2.022	-17.4	
2-Butanone		0.076	0.072	5.3	
1,1,1-Trichloroethane		0.664	0.723	-10.7	
Carbon Tetrachloride		0.709	0.690	2.7	
Vinyl Acetate		0.322	0.217	32.8	
Bromodichloromethane		0.749	0.847	-13.1	
1,2-Dichloropropane	*	0.325	0.278	14.5	*
cis-1,3-Dichloropropene		0.752	0.712	5.3	
Trichloroethene		0.482	0.422	12.4	
Dibromochloromethane		0.929	0.830	7.1	
1,1,2-Trichloroethane		0.397	0.346	12.8	
Benzene		0.687	0.711	-3.5	
Trans-1,3-Dichloropropene		0.239	0.235	1.7	
Bromoform	#	0.750	0.769	-2.5	#
4-Methyl-2-Pentanone		0.317	0.296	6.6	
2-Hexanone		0.216	0.181	16.2	
Tetrachloroethene		0.527	0.476	9.7	
1,1,2,2-Tetrachloroethane	#	0.597	0.652	-9.2	#
Toluene	*	0.555	0.584	-5.2	*
Chlorobenzene	#	0.947	0.858	9.4	#
Ethylbenzene	*	0.998	0.983	1.3	*
Styrene		0.935	0.739	11.5	
Total Xylenes		0.557	0.489	12.2	
Toluene-d8		0.978	1.011	-3.6	
BFB		0.699	0.767	-9.7	
1,2-Dichloroethane-d4		1.433	1.803	-25.8	

CBE 27
CBE 29
CBE 30
UBLK 01

FORM VII VOA 1/87 Rev.

AR303804

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15836 SAS No.: _____ SDG No.: 08827

Instrument ID: MS5 Calibration Date: 02/13/91 Time: 1031

Lab File ID: E2843 Init. Calib. Date(s): 02/07/91 02/07/91

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Chloromethane #	0.437	0.483	-10.5	#
Bromomethane	1.034	1.144	-10.6	
Vinyl Chloride *	0.779	0.771	1.0	*
Chloroethane	0.533	0.534	-0.2	
Methylene Chloride	1.112	1.065	1.5	
Acetone	0.226	0.245	7.9	
Carbon Disulfide	2.844	2.511	11.7	
1,1-Dichloroethene *	0.983	0.934	5.0	*
1,1-Dichloroethane #	1.907	1.918	-0.6	#
1,2-Dichloroethene (total)	0.978	1.092	-11.9	
Chloroform *	2.520	2.548	-1.1	*
1,2-Dichloroethane	1.595	1.783	-11.8	
2-Butanone	0.078	0.058	33.7	
1,1,1-Trichloroethane	0.664	0.622	6.8	
Carbon Tetrachloride	0.709	0.582	20.7	
Vinyl Acetate	0.322	0.195	65.4	
Bromodichloromethane	0.749	0.773	-3.2	
1,2-Dichloropropane *	0.325	0.287	11.7	*
cis-1,3-Dichloropropene	0.752	0.735	2.3	
Trichloroethene	0.482	0.429	11.2	
Dibromochloromethane	0.893	0.719	19.6	
1,1,2-Trichloroethane	0.297	0.323	18.6	
Benzene	0.687	0.709	-3.2	
Trans-1,3-Dichloropropene	0.239	0.211	11.7	
Bromoform #	0.750	0.613	18.4	#
4-Methyl-2-Pentanone	0.317	0.234	26.2	
2-Hexanone	0.216	0.141	34.7	
Tetrachloroethene	0.527	0.445	15.6	
1,1,2,2-Tetrachloroethane #	0.587	0.532	10.9	#
Toluene *	0.553	0.588	-5.9	*
Chlorobenzene #	0.947	0.864	8.8	#
Ethylbenzene *	0.398	0.385	3.3	*
Styrene	0.825	0.720	13.8	
Total Xylenes	0.557	0.487	12.6	
Toluene-d8	0.976	1.048	-7.4	
BFB	0.699	0.796	-13.9	
1,2-Dichloroethane-d4	1.433	1.673	-16.9	

CBE 31
CBE 32
CBE 33
CBE 28
CBE 28 MS
CBE 28 MS.
UBLK 02

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: OSIMIC CORP Contract: 68D90029

Lab Code: OSIMIC Case No.: 15838 SAS No.: _____ SDG No.: C8527

Instrument ID: MS1 Calibration Date(s): 09/11/90 09/11/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0

LAB FILE ID: RRF20 = A5097 RRF50 = A5096
RRF80 = A5098 RRF120= A5099 RRF160= A5100

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.520	1.391	1.329	1.303	1.277	1.364	7.1*
bis(2-Chloroethyl)Ether	1.304	1.229	1.162	1.042	0.937	1.135	12.9
2-Chlorophenol	1.417	1.304	1.332	1.217	1.145	1.293	8.2
1,3-Dichlorobenzene	1.676	1.552	1.602	1.492	1.427	1.530	6.2
1,4-Dichlorobenzene *	1.714	1.576	1.623	1.475	1.401	1.558	7.9*
Benzyl Alcohol	0.790	0.708	0.705	0.671	0.638	0.706	7.3
1,2-Dichlorobenzene	1.613	1.440	1.490	1.356	1.254	1.432	9.6
2-Methylphenol	1.130	1.068	1.033	0.919	0.873	1.005	10.6
bis(2-Chloroisopropyl)Ether	2.206	2.027	2.048	1.870	1.762	1.983	8.6
4-Methylphenol	1.104	1.061	1.077	0.955	0.956	0.991	12.5
N-Nitroso-Di-n-Propylamine #	0.928	0.832	0.847	0.833	0.800	0.850	6.1*
Hexachloroethane	0.638	0.629	0.651	0.606	0.556	0.626	7.9
Nitrobenzene	0.370	0.374	0.364	0.336	0.296	0.348	9.4
Isophorone	0.791	0.722	0.708	0.674	0.615	0.702	9.2
2-Nitrophenol *	0.246	0.246	0.243	0.253	0.225	0.242	4.3*
2,4-Dimethylphenol	0.323	0.348	0.343	0.343	0.323	0.336	3.
Benzoic Acid		0.178	0.197	0.204	0.203	0.196	6.
bis(2-Chloroethoxy)Methane	0.505	0.463	0.464	0.424	0.404	0.453	8.9
2,4-Dichlorophenol *	0.406	0.363	0.382	0.374	0.350	0.376	5.4*
1,2,4-Trichlorobenzene	0.454	0.412	0.419	0.406	0.393	0.415	6.2
Naphthalene	1.155	1.002	1.040	0.872	0.852	0.984	12.7
4-Chloroaniline	0.437	0.399	0.398	0.359	0.340	0.387	9.9
Hexachlorobutadiene *	0.293	0.255	0.263	0.245	0.221	0.257	10.4*
4-Chloro-3-Methylphenol *	0.363	0.360	0.330	0.329	0.315	0.339	6.2*
2-Methylnaphthalene	0.793	0.688	0.714	0.644	0.638	0.693	8.5
Hexachlorocyclopentadiene #	0.130	0.286	0.289	0.297	0.295	0.259	29.0#
2,4,6-Trichlorophenol *	0.489	0.469	0.488	0.470	0.424	0.468	5.6*
2,4,5-Trichlorophenol		0.516	0.532	0.492	0.447	0.497	7.4
2-Chloronaphthalene	1.446	1.326	1.308	1.215	1.196	1.298	7.7
2-Nitroaniline		0.409	0.429	0.399	0.363	0.400	6.8
Dimethyl Phthalate	1.870	1.668	1.692	1.584	1.429	1.648	9.8
Acenaphthylene	2.139	1.956	1.884	1.766	1.647	1.879	10.0
2,6-Dinitrotoluene	0.404	0.447	0.439	0.426	0.378	0.419	6.7
3-Nitroaniline		0.387	0.409	0.369	0.363	0.382	5.4
Acenaphthene *	1.500	1.402	1.342	1.224	1.172	1.329	10.0*
2,4-Dinitrophenol #		0.121	0.138	0.191	0.209	0.170	22.9#
4-Nitrophenol #		0.215	0.222	0.213	0.191	0.210	6.4#

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15329 SAS No.: _____ SDG No.: C9527

Instrument ID: MS1 Calibration Date(s): 09/11/90 09/11/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = A5097 RRF50 = A5096
RRF30 = A5098 RRF120= A5099 RRF160= A5100

COMPOUND	RRF20	RRF50	RRF30	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	2.041	1.891	1.916	1.917	1.688	1.871	7.0
2,4-Dinitrotoluene	0.533	0.590	0.613	0.582	0.592	0.584	3.7
Diethylphthalate	2.079	1.875	1.909	1.640	1.446	1.770	13.5
4-Chlorophenyl-phenylether	0.848	0.716	0.704	0.654	0.611	0.707	12.6
Fluorene	1.636	1.558	1.516	1.401	1.350	1.492	7.9
4-Nitroaniline		0.315	0.396	0.414	0.405	0.382	11.9
4,6-Dinitro-2-Methylphenol		0.150	0.155	0.169	0.171	0.161	6.4
N-Nitrosodiphenylamine (1) *	0.612	0.579	0.557	0.539	0.469	0.551	9.7*
4-Bromophenyl-phenylether	0.272	0.239	0.250	0.229	0.217	0.241	9.7
Hexachlorobenzene	0.340	0.299	0.307	0.276	0.267	0.298	9.6
Pentachlorophenol *		0.175	0.195	0.189	0.180	0.185	4.3*
Phenanthrene	1.315	1.200	1.142	1.064	0.979	1.140	11.3
Anthracene	1.221	1.139	1.180	1.036	0.965	1.108	9.5
Di-n-Butylphthalate	2.125	1.953	1.975	1.848	1.576	1.895	10.9
Fluoranthene *	1.480	1.307	1.295	1.237	1.152	1.292	9.3*
Pyrene	1.432	1.401	1.504	1.390	1.290	1.403	5.5
Butylbenzylphthalate	0.931	0.997	0.968	0.907	0.807	0.934	9.5
3,3'-Dichlorobenzidine	0.415	0.417	0.446	0.401	0.390	0.412	5.9
Benzo(a)Anthracene	1.325	1.261	1.327	1.212	1.149	1.255	6.1
Chrysene	1.345	1.220	1.258	1.149	1.062	1.207	8.9
bis(2-Ethylhexyl)Phthalate	1.360	1.332	1.402	1.244	1.084	1.285	9.8
Di-n-Octyl Phthalate *	2.941	2.713	2.608	2.385	2.216	2.553	9.9*
Benzo(b)Fluoranthene	1.489	1.481	1.507	1.767	1.920	1.613	10.3
Benzo(k)Fluoranthene	1.361	1.193	1.196	1.329	1.055	1.227	10.0
Benzo(a)Pyrene *	1.236	1.177	1.227	1.174	1.080	1.179	5.3*
Indeno(1,2,3-cd)Pyrene	0.970	0.990	1.032	1.083	1.039	1.023	4.3
Dibenz(a,h)Anthracene	0.916	0.908	0.964	0.930	0.878	0.919	3.4
Benzo(g,h,i)Perylene	0.925	0.913	0.990	0.934	0.989	0.932	3.7
Nitrobenzene-d5	0.368	0.366	0.367	0.349	0.323	0.354	5.5
2-Fluorobiphenyl	1.634	1.482	1.464	1.349	1.346	1.455	8.1
Terphenyl-d14	0.872	0.835	0.993	0.735	0.677	0.902	11.6
Phenol-d5	1.311	1.240	1.224	1.146	1.082	1.201	7.4
2-Fluorophenol	1.169	1.131	1.162	1.072	1.021	1.111	5.7
2,4,6-Tribromophenol	0.261	0.240	0.258	0.254	0.246	0.252	3.4

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS1 Calibration date: 02/20/91 Time: 2007

Lab File ID: A6379 Init. Calib. Date(s): 09/11/90 09/11/90

Min RRF30 for SPCC(*) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF30	%D	
Phenol *	1.364	1.245	8.7	*
bis(2-Chloroethyl)Ether	1.125	1.107	2.5	
2-Chlorophenol	1.283	1.185	7.6	
1,3-Dichlorobenzene	1.550	1.498	3.7	
1,4-Dichlorobenzene *	1.558	1.496	4.0	*
Benzyl Alcohol	0.706	0.709	-0.4	
1,2-Dichlorobenzene	1.432	1.456	-1.7	
2-Methylphenol	1.005	1.025	-2.0	
bis(2-Chloroisopropyl)Ether	1.883	2.253	-19.6	
4-Methylphenol	0.991	1.089	-9.9	
N-Nitroso-Di-n-Propylamine #	0.850	0.902	-6.1	#
Hexachloroethane	0.626	0.622	-2.9	
Nitrobenzene	0.348	0.326	6.3	
Isophorone	0.702	0.661	5.9	
2-Nitrophenol *	0.243	0.226	2.9	*
2,4-Dimethylphenol	0.338	0.314	6.5	
Benzoic Acid	0.196	0.205	-4.6	
bis(2-Chloroethoxy)Methane	0.453	0.442	2.4	
2,4-Dichlorophenol *	0.376	0.332	11.7	*
1,2,4-Trichlorobenzene	0.415	0.390	6.0	
Naphthalene	0.994	0.934	5.1	
4-Chloroaniline	0.387	0.378	2.3	
Hexachlorobutadiene *	0.257	0.215	16.3	*
4-Chloro-3-Methylphenol *	0.339	0.334	1.5	*
2-Methylnaphthalene	0.893	0.751	-8.4	
Hexachlorocyclopentadiene #	0.259	0.193	25.5	#
2,4,6-Trichlorophenol *	0.469	0.399	15.0	*
2,4,5-Trichlorophenol	0.497	0.474	4.6	
2-Chloronaphthalene	1.298	1.190	8.3	
2-Nitroaniline	0.400	0.407	-1.9	
Dimethyl Phthalate	1.648	1.506	8.6	
Acenaphthylene	1.979	1.924	-2.4	
2,6-Dinitrotoluene	0.419	0.385	8.1	
3-Nitroaniline	0.382	0.352	7.9	
Acenaphthene *	1.329	1.131	14.8	*
2,4-Dinitrophenol #	0.170	0.149	12.4	#
4-Nitrophenol #	0.210	0.151	28.1	#

CBE 32
CBE 33
CBE 29
CBE 30
CBE 31

FORM VII SV-1 1/87

AR303808

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS1 Calibration date: 02/20/91 Time: 2007

Lab File ID: A6373 Init. Calib. Date(s): 09/11/90 09/11/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.971	1.682	10.1
2,4-Dinitrotoluene	0.584	0.550	5.8
Diethylphthalate	1.770	1.480	16.4
4-Chlorophenyl-phenylether	0.707	0.619	12.4
Fluorene	1.492	1.398	6.2
4-Nitroaniline	0.382	0.333	12.8
4,6-Dinitro-2-Methylphenol	0.161	0.154	4.3
N-Nitrosodiphenylamine (1) *	0.551	0.511	7.3 *
4-Bromophenyl-phenylether	0.241	0.210	12.9
Hexachlorobenzene	0.298	0.255	14.4
Pentachlorophenol *	0.185	0.164	11.4 *
Phenanthrene	1.140	1.106	3.0
Anthracene	1.109	1.144	-3.2
Di-n-Butylphthalate	1.885	1.832	2.8
Fluoranthene *	1.292	1.328	-2.8 *
Pyrene	1.403	1.480	-5.5
Butylbenzylphthalate	0.924	0.833	10.9
3,3'-Dichlorobenzidine	0.412	0.378	8.3
Benzo(a)Anthracene	1.253	1.251	0.3
Chrysene	1.207	1.286	-6.5
bis(2-Ethylhexyl)Phthalate	1.285	1.322	-3.7
Di-n-Octyl Phthalate *	2.553	2.606	-2.1 *
Benzo(b)Fluoranthene	1.613	1.350	16.3
Benzo(k)Fluoranthene	1.227	1.406	-14.6
Benzo(a)Pyrene *	1.179	1.220	-3.5 *
Indeno(1,2,3-cd)Pyrene	1.023	1.050	-2.6
Dibenz(a,h)Anthracene	0.919	1.129	-22.2
Benzo(g,h,i)Perylene	0.932	1.113	-19.4
Nitrobenzene-d5	0.354	0.324	8.5
2-Fluorobiphenyl	1.455	1.244	14.5
Terphenyl-d14	0.802	0.759	5.5
Phenol-d5	1.201	1.269	-5.7
2-Fluorophenol	1.111	0.948	14.7
2,4,6-Tribromophenol	0.252	0.227	9.9

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS I CALIBRATION DATA

Lab Name: CSIMIC CORP Contract: 68D90029

Lab Code: CSIMIC Case No.: 15838 SAS No.: _____ SDG No.: C8627

Instrument ID: MS4 Calibration Date(s): 12/27/90 12/27/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0

LAB FILE ID: RRF20 = D4470 RRF50 = D4467
RRF80 = D4471 RRF120= D4472 RRF160= D4473

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.579	1.714	1.509	1.440	1.317	1.512	9.8*
bis(2-Chloroethyl)Ether	1.398	1.486	1.326	1.258	1.187	1.333	8.5
2-Chlorophenol	1.322	1.402	1.280	1.262	1.224	1.298	5.2
1,3-Dichlorobenzene	1.547	1.617	1.473	1.518	1.444	1.520	4.4
1,4-Dichlorobenzene *	1.515	1.600	1.424	1.448	1.364	1.470	6.2*
Benzyl Alcohol	0.599	0.711	0.706	0.733	0.772	0.704	9.2
1,2-Dichlorobenzene	1.466	1.539	1.362	1.359	1.219	1.409	6.4
2-Methylphenol	1.117	1.150	1.084	1.082	1.076	1.102	2.8
bis(2-Chloroisopropyl)Ether	1.613	1.740	1.641	1.807	1.800	1.740	6.8
4-Methylphenol	1.167	1.267	1.133	1.022	1.092	1.128	7.7
N-Nitroso-Di-n-Propylamine #	1.051	1.090	0.987	0.963	1.031	1.026	4.8#
Hexachloroethane	0.624	0.652	0.600	0.575	0.633	0.624	5.7
Nitrobenzene	0.290	0.409	0.273	0.370	0.263	0.379	4.7
Isophorone	0.793	0.783	0.787	0.791	0.627	0.756	9.6
2-Nitrophenol *	0.214	0.236	0.223	0.225	0.175	0.217	11.4*
2,4-Dimethylphenol	0.329	0.279	0.350	0.372	0.322	0.350	7
Benzoic Acid		0.151	0.175	0.186	0.203	0.179	11
bis(2-Chloroethoxy)Methane	0.501	0.522	0.500	0.494	0.442	0.492	6.1
2,4-Dichlorophenol *	0.304	0.341	0.317	0.301	0.290	0.311	6.3*
1,2,4-Trichlorobenzene	0.379	0.386	0.370	0.348	0.337	0.364	5.7
Naphthalene	1.033	1.041	0.942	0.885	0.830	0.946	9.7
4-Chloroaniline	0.432	0.387	0.422	0.396	0.380	0.403	5.6
Hexachlorobutadiene *	0.235	0.233	0.221	0.220	0.206	0.223	5.2*
4-Chloro-3-Methylphenol *	0.339	0.376	0.352	0.363	0.353	0.357	3.9*
2-Methylnaphthalene	0.738	0.718	0.633	0.639	0.598	0.665	9.0
Hexachlorocyclopentadiene #	0.174	0.116	0.290	0.306	0.308	0.239	37.0#
2,4,6-Trichlorophenol *	0.435	0.448	0.420	0.408	0.389	0.420	5.5*
2,4,5-Trichlorophenol		0.482	0.467	0.480	0.443	0.468	3.9
2-Chloronaphthalene	1.249	1.258	1.163	1.142	1.048	1.192	9.7
2-Nitroaniline		0.474	0.469	0.474	0.462	0.470	1.2
Dimethyl Phthalate	1.614	1.548	1.372	1.369	1.324	1.445	8.8
Acenaphthylene	2.062	1.941	1.713	1.672	1.536	1.765	11.2
2,6-Dinitrotoluene	0.406	0.423	0.405	0.405	0.393	0.406	2.6
3-Nitroaniline		0.383	0.401	0.392	0.357	0.392	5.0
Acenaphthene *	1.229	1.264	1.191	1.116	1.035	1.185	9.8*
2,4-Dinitrophenol #		0.104	0.166	0.219	0.251	0.185	34.9#
4-Nitrophenol #		0.110	0.153	0.170	0.181	0.154	20.3#

SEMI-VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CRIMIC CORP Contract: 68D90029

Lab Code: CRIMIC Case No.: 15838 SAS No.: _____ SDG No.: C8627

Instrument ID: MS4 Calibration Date(s): 12/27/90 12/27/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = D4470 RRF50 = D4467
RRF80 = D4471 RRF120= D4472 RRF160= D4473

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.931	1.850	1.700	1.655	1.611	1.741	7.1
2,4-Dinitrotoluene	0.565	0.573	0.571	0.576	0.557	0.568	1.2
Diethylphthalate	1.839	1.744	1.565	1.454	1.304	1.581	13.6
4-Chlorophenyl-phenylether	0.803	0.730	0.666	0.611	0.564	0.675	14.0
Fluorene	1.589	1.452	1.416	1.442	1.305	1.441	7.0
4-Nitroaniline		0.323	0.362	0.435	0.424	0.386	13.7
4,6-Dinitro-2-Methylphenol		0.144	0.156	0.171	0.158	0.157	7.0
N-Nitrosodiphenylamine (1)*	0.533	0.541	0.476	0.441	0.371	0.477	16.0*
4-Bromophenyl-phenylether	0.240	0.246	0.230	0.227	0.214	0.231	5.4
Hexachlorobenzene	0.295	0.288	0.274	0.274	0.265	0.279	4.3
Pentachlorophenol*		0.134	0.145	0.150	0.137	0.142	5.2*
Phenanthrene	1.146	1.129	1.042	0.999	0.946	1.052	8.1
Anthracene	1.151	1.126	1.025	0.995	0.925	1.044	9.0
Di-n-Butylphthalate	1.847	1.807	1.640	1.559	1.290	1.669	12.7
Fluoranthene*	1.451	1.481	1.296	1.242	1.120	1.320	11.1*
Pyrene	1.430	1.508	1.474	1.452	1.424	1.460	2.2
Butylbenzylphthalate	0.856	0.931	0.862	0.854	0.836	0.868	4.2
3,3'-Dichlorobenzidine	0.373	0.404	0.420	0.399	0.366	0.392	5.7
Benzo(a)Anthracene	1.274	1.374	1.316	1.326	1.342	1.326	2.8
Chrysene	1.280	1.347	1.267	1.248	1.226	1.276	3.4
bis(2-Ethylhexyl)Phthalate	1.200	1.219	1.193	1.128	1.126	1.193	6.4
Di-n-Octyl Phthalate*	2.330	2.566	2.139	2.084	2.007	2.225	10.1*
Benzo(b)Fluoranthene	1.269	1.516	1.555	1.719	1.486	1.509	10.7
Benzo(k)Fluoranthene	1.290	1.420	0.985	0.971	1.045	1.142	17.6
Benzo(a)Pyrene*	1.148	1.304	1.166	1.189	1.160	1.193	5.3*
Indeno(1,2,3-cd)Pyrene	0.794	0.996	0.933	1.079	1.054	0.971	11.7
Dibenz(a,h)Anthracene	0.791	1.005	0.873	0.968	0.921	0.912	9.2
Benzo(g,h,i)Perylene	0.752	0.963	0.868	0.937	0.900	0.884	9.3
Nitrobenzene-d5	0.365	0.289	0.271	0.269	0.266	0.372	2.6
2-Fluorobiphenyl	1.554	1.463	1.341	1.279	1.189	1.365	10.5
Terphenyl-d14	0.994	1.072	0.966	0.876	0.823	0.946	10.4
Phenol-d5	1.630	1.743	1.576	1.511	1.518	1.596	6.0
2-Fluorophenol	0.972	1.210	1.152	0.914	0.988	1.047	12.1
2,4,6-Tribromophenol	0.233	0.227	0.251	0.266	0.257	0.247	6.6

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: C8E27

Instrument ID: MS1 Calibration Date(s): 03/22/91 03/22/91

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0

LAB FILE ID: RRF20 = A7118 RRF50 = A7119
RRF80 = A7120 RRF120= A7121 RRF160= A7122

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.593	1.714	1.590	1.497	1.347	1.548	8.8*
bis(2-Chloroethyl)Ether	1.382	1.480	1.417	1.320	1.241	1.368	6.7
2-Chlorophenol	1.293	1.406	1.325	1.340	1.273	1.327	3.9
1,3-Dichlorobenzene	1.491	1.526	1.479	1.481	1.416	1.479	2.7
1,4-Dichlorobenzene *	1.518	1.515	1.478	1.499	1.419	1.486	2.7*
Benzyl Alcohol	0.753	0.850	0.910	0.836	0.822	0.814	4.6
1,2-Dichlorobenzene	1.430	1.435	1.402	1.408	1.302	1.395	3.9
2-Methylphenol	1.155	1.219	1.161	1.119	1.042	1.139	5.7
bis(2-Chloroisopropyl)Ether	2.264	2.394	2.307	2.354	2.296	2.323	2.2
4-Methylphenol	1.155	1.301	1.192	1.171	1.104	1.195	6.1
N-Nitroso-Dimethylamine #	1.082	1.207	1.148	1.111	1.025	1.117	5.8*
Hexachloroethane	0.679	0.715	0.662	0.656	0.608	0.664	5.8
Nitrobenzene	0.433	0.444	0.424	0.390	0.386	0.415	6.2
Isophorone	0.827	0.850	0.908	0.910	0.766	0.812	3.8
2-Nitrophenol *	0.216	0.231	0.219	0.213	0.219	0.219	3.1*
2,4-Dimethylphenol	0.329	0.388	0.375	0.381	0.366	0.368	6.
Benzoic Acid		0.211	0.209	0.234	0.220	0.221	5.
bis(2-Chloroethoxy)Methane	0.510	0.521	0.487	0.492	0.445	0.491	5.8
2,4-Dichlorophenol *	0.327	0.335	0.315	0.316	0.300	0.319	4.2*
1,2,4-Trichlorobenzene	0.373	0.377	0.354	0.353	0.340	0.359	4.3
Naphthalene	1.025	1.052	0.963	0.915	0.899	0.971	6.8
4-Chloroaniline	0.398	0.381	0.376	0.374	0.332	0.372	6.6
Hexachlorobutadiene *	0.262	0.248	0.233	0.236	0.217	0.239	7.1*
4-Chloro-3-Methylphenol *	0.370	0.374	0.352	0.346	0.341	0.357	4.1*
2-Methylnaphthalene	0.665	0.673	0.642	0.618	0.592	0.638	5.2
Hexachlorocyclopentadiene #	0.296	0.393	0.409	0.401	0.388	0.377	12.2#
2,4,6-Trichlorophenol *	0.468	0.450	0.466	0.445	0.438	0.453	2.9*
2,4,5-Trichlorophenol		0.518	0.531	0.498	0.509	0.514	2.7
2-Chloronaphthalene	1.367	1.306	1.357	1.298	1.208	1.307	4.8
2-Nitroaniline		0.542	0.582	0.536	0.532	0.548	4.2
Dimethyl Phthalate	1.706	1.693	1.684	1.685	1.569	1.667	3.4
Acenaphthylene	2.079	2.001	2.057	1.936	1.919	1.979	5.3
2,6-Dinitrotoluene	0.412	0.444	0.440	0.433	0.405	0.427	4.1
3-Nitroaniline		0.393	0.426	0.401	0.390	0.402	4.1
Acenaphthene *	1.410	1.359	1.370	1.362	1.269	1.354	3.8*
2,4-Dinitrophenol #		0.224	0.235	0.249	0.250	0.240	5.2#
4-Nitrophenol #		0.298	0.308	0.288	0.264	0.290	6.5#

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15808 SAS No.: _____ SDG No.: C9627

Instrument ID: MS1 Calibration Date(s): 03/22/91 03/22/91

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = A7119 RRF50 = A7119
RRF80 = A7120 RRF120= A7121 RRF160= A7122

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.939	1.901	1.857	1.754	1.684	1.793	4.3
2,4-Dinitrotoluene	0.569	0.612	0.599	0.585	0.557	0.584	3.9
Diethylphthalate	1.976	1.862	1.851	1.711	1.570	1.774	7.4
4-Chlorophenyl-phenylether	0.732	0.726	0.703	0.660	0.630	0.690	6.4
Fluorene	1.387	1.440	1.461	1.280	1.316	1.397	4.1
4-Nitroaniline		0.397	0.425	0.409	0.409	0.410	2.8
4,6-Dinitro-2-Methylphenol		0.190	0.179	0.182	0.185	0.182	1.5
N-Nitrosodiphenylamine (1) *	0.533	0.520	0.539	0.487	0.505	0.517	4.1*
4-Bromophenyl-phenylether	0.264	0.253	0.246	0.242	0.239	0.249	4.0
Hexachlorobenzene	0.240	0.239	0.230	0.227	0.222	0.232	2.2
Pentachlorophenol *		0.219	0.219	0.210	0.205	0.212	2.8*
Phenanthrene	1.152	1.145	1.144	1.097	1.060	1.120	3.6
Anthracene	1.091	1.118	1.150	1.104	1.079	1.108	2.5
Di-n-Butylphthalate	1.762	1.823	1.818	1.737	1.727	1.773	2.5
Fluoranthene *	1.254	1.379	1.314	1.291	1.249	1.297	4.0*
Pyrene	1.342	1.399	1.375	1.399	1.333	1.368	2.1
Butylbenzylphthalate	0.792	0.836	0.832	0.810	0.808	0.816	2.2
3,3'-Dichlorobenzidine	0.333	0.429	0.411	0.415	0.380	0.394	8.7
Benzo(a)Anthracene	1.185	1.222	1.186	1.233	1.144	1.194	2.8
Chrysene	1.229	1.277	1.246	1.268	1.225	1.252	1.5
bis(2-Ethylhexyl)Phthalate	1.092	1.194	1.172	1.194	1.122	1.157	3.8
Di-n-Octyl Phthalate *	2.013	2.175	2.108	2.148	2.118	2.112	2.9*
Benzo(b)Fluoranthene	1.214	1.263	1.437	1.396	1.475	1.377	7.3
Benzo(k)Fluoranthene	1.310	1.201	1.079	1.191	1.049	1.164	9.0
Benzo(a)Pyrene *	1.173	1.175	1.166	1.233	1.183	1.186	2.3*
Indeno(1,2,3-cd)Pyrene	1.071	1.164	1.099	1.243	1.222	1.160	6.4
Dibenz(a,h)Anthracene	1.103	1.142	1.111	1.198	1.145	1.140	3.3
Benzo(g,h,i)Perylene	1.095	1.165	1.101	1.175	1.107	1.129	3.4
Nitrobenzene-d5	0.404	0.429	0.399	0.401	0.379	0.402	4.3
2-Fluorobiphenyl	1.668	1.484	1.521	1.510	1.441	1.525	5.6
Terphenyl-d14	0.992	1.003	0.931	0.964	0.885	0.955	5.0
Phenol-d5	1.645	1.746	1.648	1.599	1.535	1.635	4.7
2-Fluorophenol	1.233	1.343	1.280	1.288	1.224	1.274	3.8
2,4,6-Tribromophenol	0.352	0.371	0.360	0.361	0.351	0.359	2.3

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS1 Calibration date: 03/30/91 Time: 1530

Lab File ID: A7211 Init. Calib. Date(s): 03/22/91 03/22/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	1.548	1.537	0.7	*
bis(2-Chloroethyl)Ether		1.368	1.397	-2.1	
2-Chlorophenol		1.327	1.336	-0.7	
1,3-Dichlorobenzene		1.479	1.517	-2.6	
1,4-Dichlorobenzene	*	1.486	1.534	-3.2	*
Benzyl Alcohol		0.914	0.402	50.8	
1,2-Dichlorobenzene		1.395	1.446	-3.7	
2-Methylphenol		1.139	1.105	3.0	
bis(2-Chloroisopropyl)Ether		2.329	2.722	-17.2	
4-Methylphenol		1.195	1.195	0.0	
N-Nitroso-Di-n-Propylamine	#	1.117	1.109	0.8	#
Hexachloroethane		0.564	0.561	0.5	
Nitrobenzene		0.415	0.409	1.4	
Isophorone		0.812	0.796	2.0	
2-Nitrophenol	*	0.219	0.229	-4.6	*
2,4-Dimethylphenol		0.268	0.297	19.3	
Benzoic Acid		0.221	0.117	47.1	
bis(2-Chloroethoxy)Methane		0.491	0.509	-3.7	
2,4-Dichlorophenol	*	0.319	0.348	-9.1	*
1,2,4-Trichlorobenzene		0.259	0.286	-7.5	
Naphthalene		0.971	1.009	-3.8	
4-Chloroaniline		0.272	0.341	8.3	
Hexachlorobutadiene	*	0.229	0.267	-11.7	*
4-Chloro-3-Methylphenol	*	0.357	0.329	8.1	*
2-Methylnaphthalene		0.638	0.844	32.3	
Hexachlorocyclopentadiene	#	0.277	0.148	60.7	#
2,4,6-Trichlorophenol	*	0.453	0.390	13.9	*
2,4,5-Trichlorophenol		0.514	0.445	13.4	
2-Chloronaphthalene		1.307	1.223	6.4	
2-Nitroaniline		0.548	0.447	18.4	
Dimethyl Phthalate		1.667	1.507	9.6	
Acenaphthylene		1.978	1.618	18.2	
2,6-Dinitrotoluene		0.427	0.408	4.4	
3-Nitroaniline		0.402	0.314	21.9	
Acenaphthene	*	1.354	1.213	10.4	*
2,4-Dinitrophenol	#	0.240	0.159	33.8	#
4-Nitrophenol	#	0.290	0.141	51.4	#

SBLK02

FORM VII SV-1 1/87 Rev

AR303814

SEMIVOLATILE CONTINUING CAL.

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15808 SAS No.: _____ SDG No.: CB627

Instrument ID: MS1 Calibration date: 03/30/91 Time: 1530

Lab File ID: A7111 Init. Calib. Date(s): 03/22/91 03/22/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.783	1.794	-0.1	
2,4-Dinitrotoluene	0.584	0.543	7.0	
Diethylphthalate	1.774	1.707	3.8	
4-Chlorophenyl-phenylether	0.690	0.746	-8.1	
Fluorene	1.297	1.374	1.6	
4-Nitroaniline	0.410	0.298	29.8	
4,6-Dinitro-2-Methylphenol	0.182	0.165	9.3	
N-Nitrosodiphenylamine (1)	0.517	0.525	-1.5	*
4-Bromophenyl-phenylether	0.249	0.279	-12.0	
Hexachlorobenzene	0.332	0.380	-14.5	
Pentachlorophenol	0.212	0.164	22.6	*
Phenanthrene	1.120	1.119	0.1	
Anthracene	1.108	1.127	-2.6	
Di-n-Butylphthalate	1.773	1.812	-2.2	
Fluoranthene	1.297	1.250	-4.1	*
Pyrene	1.368	1.427	-4.3	
Butylbenzylphthalate	0.816	0.803	1.6	
3,3'-Dichlorobenzidine	0.394	0.362	8.1	
Benzo(a)Anthracene	1.194	1.310	-9.7	
Chrysene	1.252	1.344	-7.3	
bis(2-Ethylhexyl)Phthalate	1.157	1.169	-1.0	
Di-n-Octyl Phthalate	2.112	2.428	-15.0	*
Benzo(b)Fluoranthene	1.377	1.560	-13.3	
Benzo(k)Fluoranthene	1.164	1.359	-16.8	
Benzo(a)Pyrene	1.186	1.212	-2.2	*
Indeno(1,2,3-cd)Pyrene	1.160	1.016	12.4	
Dibenz(a,h)Anthracene	1.140	1.108	2.9	
Benzo(g,h,i)Perylene	1.129	0.993	12.0	
Nitrobenzene-d5	0.402	0.392	2.5	
2-Fluorobiphenyl	1.522	1.338	12.3	
Terphenyl-d14	0.955	0.983	-2.9	
Phenol-d5	1.635	1.430	12.5	
2-Fluorophenol	1.274	1.200	5.8	
2,4,6-Tribromophenol	0.359	0.384	-7.0	

(1) Cannot be separated from Diphenylamine

FORM VII SV-2 1/87 Rev

AR303815

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS1 Calibration date: 04/02/91 Time: 1206

Lab File ID: A7258 Init. Calib. Date(s): 03/22/91 03/22/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	1.548	1.729	-11.6	*
bis(2-Chloroethyl)Ether		1.368	1.522	-11.3	
2-Chlorophenol		1.327	1.366	-2.9	
1,3-Dichlorobenzene		1.478	1.521	-2.9	
1,4-Dichlorobenzene	*	1.486	1.520	-2.3	*
Benzyl Alcohol		0.814	0.141	82.7	
1,2-Dichlorobenzene		1.395	1.454	-4.2	
2-Methylphenol		1.139	1.230	-8.0	
bis(2-Chloroisopropyl)Ether		2.323	2.859	-23.1	
4-Methylphenol		1.185	1.223	-4.1	
N-Nitroso-Di-n-Propylamine	#	1.117	1.197	-6.2	#
Hexachloroethane		0.664	0.636	-2.2	
Nitrobenzene		0.415	0.441	-6.2	
Isophorone		0.812	0.833	-2.6	
2-Nitrophenol	*	0.219	0.222	-1.4	*
2,4-Dimethylphenol		0.368	0.320	13.0	
Benzoic Acid		0.221	0.149	32.6	
bis(2-Chloroethoxy)Methane		0.481	0.542	-10.4	
2,4-Dichlorophenol	*	0.319	0.323	-1.3	*
1,2,4-Trichlorobenzene		0.259	0.240	5.3	
Naphthalene		0.971	1.014	-4.4	
4-Chloroaniline		0.272	0.262	2.7	
Hexachlorobutadiene	*	0.229	0.212	11.3	*
4-Chloro-3-Methylphenol	*	0.257	0.271	-3.9	*
2-Methylnaphthalene		0.638	0.957	-50.0	
Hexachlorocyclopentadiene	#	0.277	0.169	35.2	#
2,4,6-Trichlorophenol	*	0.453	0.390	13.9	*
2,4,5-Trichlorophenol		0.514	0.473	8.0	
2-Chloronaphthalene		1.307	1.199	8.3	
2-Nitroaniline		0.548	0.511	6.8	
Dimethyl Phthalate		1.667	1.456	12.7	
Acenaphthylene		1.979	1.785	9.9	
2,6-Dinitrotoluene		0.427	0.404	5.4	
3-Nitroaniline		0.402	0.347	13.7	
Acenaphthene	*	1.354	1.243	8.2	*
2,4-Dinitrophenol	#	0.240	0.147	38.9	#
4-Nitrophenol	#	0.290	0.197	32.1	#

CBE 34MS

FORM VII SV-1 544 87 Rev

AR303816

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15338 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS1 Calibration date: 04/02/91 Time: 1206

Lab File ID: A7358 Init. Calib. Date(s): 03/22/91 03/22/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.783	1.654	7.2	
2,4-Dinitrotoluene	0.584	0.524	10.3	
Diethylphthalate	1.774	1.734	2.3	
4-Chlorophenyl-phenylether	0.680	0.679	1.6	
Fluorene	1.297	1.326	5.1	
4-Nitroaniline	0.410	0.337	17.8	
4,6-Dinitro-2-Methylphenol	0.182	0.150	17.6	
N-Nitrosodiphenylamine (1)	0.517	0.545	-5.4	*
4-Bromophenyl-phenylether	0.249	0.259	-4.0	
Hexachlorobenzene	0.332	0.338	-1.8	
Pentachlorophenol	0.212	0.177	16.5	*
Phenanthrene	1.120	1.114	0.5	
Anthracene	1.109	1.096	1.1	
Di-n-Butylphthalate	1.772	1.829	-2.7	
Fluoranthene	1.297	1.332	-2.7	*
Pyrene	1.368	1.362	0.4	
Butylbenzylphthalate	0.816	0.812	0.5	
3,3'-Dichlorobenzidine	0.394	0.378	4.1	
Benzo(a)Anthracene	1.194	1.218	-2.0	
Chrysene	1.252	1.227	2.0	
bis(2-Ethylhexyl)Phthalate	1.157	1.224	-5.8	
Di-n-Octyl Phthalate	2.112	2.452	-16.1	*
Benzo(b)Fluoranthene	1.377	1.570	-14.0	
Benzo(k)Fluoranthene	1.164	1.199	-3.0	
Benzo(a)Pyrene	1.186	1.226	-3.4	*
Indeno(1,2,3-cd)Pyrene	1.160	1.101	5.1	
Dibenz(a,h)Anthracene	1.140	1.167	-2.4	
Benzo(g,h,i)Perylene	1.129	1.120	0.8	
Nitrobenzene-d5	0.402	0.402	0.0	
2-Fluorobiphenyl	1.525	1.272	16.6	
Terphenyl-d14	0.855	0.904	5.3	
Phenol-d5	1.635	1.662	-1.7	
2-Fluorophenol	1.274	1.271	0.2	
2,4,6-Tribromophenol	0.358	0.334	7.0	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CRE27

Instrument ID: MS1 Calibration date: 04/03/91 Time: 1051

Lab File ID: A7275 Init. Calib. Date(s): 03/22/91 03/22/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Phenol	1.548	1.722	-11.2	*
bis(2-Chloroethyl)Ether	1.368	1.505	-10.0	
2-Chlorophenol	1.227	1.229	-0.1	
1,3-Dichlorobenzene	1.478	1.522	-3.0	
1,4-Dichlorobenzene	1.486	1.542	-3.8	*
Benzyl Alcohol	0.814	0.128	84.3	
1,2-Dichlorobenzene	1.395	1.461	-4.7	
2-Methylphenol	1.139	1.241	-8.0	
bis(2-Chloroisopropyl)Ether	2.222	2.880	-29.1	
4-Methylphenol	1.185	1.189	-0.3	
N-Nitroso-Di-n-Propylamine	1.117	1.134	-1.5	#
Hexachloroethane	0.684	0.693	-2.9	
Nitrobenzene	0.415	0.429	-3.4	
Isophorone	0.812	0.804	1.0	
2-Nitrophenol	0.219	0.233	-6.4	*
2,4-Dimethylphenol	0.368	0.313	15.0	
Benzoic Acid	0.221	0.137	38.0	
bis(2-Chloroethoxy)Methane	0.491	0.547	-11.4	
2,4-Dichlorophenol	0.319	0.329	-2.8	*
1,2,4-Trichlorobenzene	0.359	0.365	-1.7	
Naphthalene	0.971	1.061	-9.2	
4-Chloroaniline	0.372	0.357	4.0	
Hexachlorobutadiene	0.239	0.222	2.9	*
4-Chloro-3-Methylphenol	0.357	0.374	-4.8	*
2-Methylnaphthalene	0.638	0.986	-38.3	
Hexachlorocyclopentadiene	0.377	0.144	61.8	#
2,4,6-Trichlorophenol	0.453	0.398	12.1	*
2,4,5-Trichlorophenol	0.514	0.491	4.5	
2-Chloronaphthalene	1.307	1.187	9.2	
2-Nitroaniline	0.548	0.486	11.3	
Dimethyl Phthalate	1.667	1.531	8.2	
Acenaphthylene	1.978	1.805	8.7	
2,6-Dinitrotoluene	0.427	0.402	5.9	
3-Nitroaniline	0.402	0.326	18.9	
Acenaphthene	1.354	1.264	6.6	*
2,4-Dinitrophenol	0.240	0.109	54.6	#
4-Nitrophenol	0.290	0.174	40.0	#

SBLK04

FORM VII SV-1 1/87 Rev.

1546

AR303818

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CB627

Instrument ID: MS1 Calibration date: 04/03/91 Time: 1051

Lab File ID: A7275 Init. Calib. Date(s): 03/22/91 03/22/91

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.783	1.757	1.5	
2,4-Dinitrotoluene	0.584	0.549	6.0	
Diethylphthalate	1.774	1.705	3.9	
4-Chlorophenyl-phenylether	0.690	0.743	-7.7	
Fluorene	1.397	1.408	-0.8	
4-Nitroaniline	0.410	0.322	21.5	
4,6-Dinitro-2-Methylphenol	0.192	0.136	25.3	
N-Nitrosodiphenylamine (1)	0.517	0.545	-5.4	*
4-Bromophenyl-phenylether	0.249	0.271	-8.8	
Hexachlorobenzene	0.222	0.245	-2.9	
Pentachlorophenol	0.212	0.167	21.2	*
Phenanthrene	1.120	1.114	0.5	
Anthracene	1.108	1.115	-0.6	
Di-n-Butylphthalate	1.773	1.792	-1.1	
Fluoranthene	1.297	1.288	0.7	*
Pyrene	1.268	1.265	0.2	
Butylbenzylphthalate	0.916	0.779	4.5	
3,3'-Dichlorobenzidine	0.284	0.254	10.2	
Benzo(a)Anthracene	1.194	1.139	4.7	
Chrysene	1.252	1.233	1.5	
bis(2-Ethylhexyl)Phthalate	1.157	1.148	0.8	
Di-n-Octyl Phthalate	2.112	2.576	-22.0	*
Benzo(b)Fluoranthene	1.377	1.502	-9.1	
Benzo(k)Fluoranthene	1.164	1.429	-22.8	
Benzo(a)Pyrene	1.196	1.214	-2.4	*
Indeno(1,2,3-cd)Pyrene	1.160	0.810	30.2	
Dibenz(a,h)Anthracene	1.140	0.893	21.7	
Benzo(g,h,i)Perylene	1.129	0.770	31.8	
Nitrobenzene-d5	0.402	0.408	-1.5	
2-Fluorobiphenyl	1.525	1.295	15.1	
Terphenyl-d14	0.955	0.889	6.9	
Phenol-d5	1.635	1.649	-0.9	
2-Fluorophenol	1.274	1.200	5.8	
2,4,6-Tribromophenol	0.359	0.372	-3.6	

(1) Cannot be separated from Diphenylamine

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15938 SAS No.: _____ SDG No.: CB627

Matrix Spike - EPA Sample No.: CB624 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	8050	0	6570	82	26- 90
2-Chlorophenol	8050	0	6930	86	25-102
1,4-Dichlorobenzene	4020	265	4230	96	28 104
N-Nitroso-di-n-prop.(1)	4020	0	3380	84	41 126
1,2,4-Trichlorobenzene	4020	0	3910	97	38 107
4-Chloro-3-methylphenol	8050	0	7050	88	26 103
Acenaphthene	4020	0	3910	97	31-137
4-Nitrophenol	8050	0	7260	91	11-114
2,4-Dinitrotoluene	4020	0	3020	75	28- 89
Pentachlorophenol	8050	0	0	0 *	17-109
Pyrene	4020	0	3330	83	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC
Phenol	8100	6590	81	1	35	26- 90
2-Chlorophenol	8100	6800	84	2	50	25-102
1,4-Dichlorobenzene	4050	3780	94	12	27	28 104
N-Nitroso-di-n-prop.(1)	4050	3740	92	-9	38	41 126
1,2,4-Trichlorobenzene	4050	3770	93	4	23	38 107
4-Chloro-3-methylphenol	8100	7030	87	1	33	26 103
Acenaphthene	4050	3600	89	9	19	31-137
4-Nitrophenol	8100	9230	114	-22	50	11-114
2,4-Dinitrotoluene	4050	3550	98	-16	47	28- 89
Pentachlorophenol	8100	0	0 *	0	47	17-109
Pyrene	4050	3410	84	-1	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS:

2C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15928 SAS No.: _____ SDG No.: CB627

atrix Spike - EPA Sample No.: CB629

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	200	0	51.2	26	12- 86
2-Chlorophenol	200	0	129	64	27-123
1,4-Dichlorobenzene	100	0	71.6	72	36 97
N-Nitroso-di-n-prop.(1)	100	0	80.5	80	41 116
1,2,4-Trichlorobenzene	100	0	74.2	74	39 98
4-Chloro-3-methylphenol	200	0	109	54	22 97
Acenaphthene	100	0	70.5	70	46-118
4-Nitrophenol	200	0	91.4	46	10- 80
2,4-Dinitrotoluene	100	0	70.7	71	24- 96
Pentachlorophenol	200	0	210	105 *	9-103
Pyrene	100	0	64.6	65	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	49.2	25	4	42	12- 86
2-Chlorophenol	200	116	58	10	40	27-123
1,4-Dichlorobenzene	100	59.4	59	20	22	36 97
N-Nitroso-di-n-prop.(1)	100	62.8	63	24	38	41 116
1,2,4-Trichlorobenzene	100	62.5	62	18	28	39 98
4-Chloro-3-methylphenol	200	94.9	47	14	42	22 97
Acenaphthene	100	50.9	51	31	31	46-118
4-Nitrophenol	200	78.8	39	16	50	10- 80
2,4-Dinitrotoluene	100	60.2	60	17	38	24- 96
Pentachlorophenol	200	199	100	5	50	9-103
Pyrene	100	62.3	62	5	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE28MS

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15328 SAS No.: _____ SDG No.: CB627

Matrix: (soil/water) WATER Lab Sample ID: 910068-02MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2949

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column: (pack/cap) PACK Dilution Factor: 2.5

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	29	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	Trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	260	
100-42-5	Styrene	12	U
1330-20-7	Total Xylenes	530	E

FORM I VOA

AR303822

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE28MSD

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15929 SAS No.: _____ SDG No.: CBE17

Matrix: (soil/water) WATER Lab Sample ID: 910066-02MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2950

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column: (pack/cap) PACK Dilution Factor: 2.5

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	Trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	280	
100-42-5	Styrene	12	U
1330-20-7	Total Xylenes	620	E

FORM I VOA

315 1/87 Rev.

AR303823

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE29MS

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15929 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02M

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4855

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	2	J
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	49	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	3	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

AR303824

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CBE29MS

Lab Name: CHEMTEC CORP Contract: 68D90028

Lab Code: CHEMTC Case No.: 15879 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4855

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	2-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE28MSD

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4856

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	2	J
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	35	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	2	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

LE NO.

CBE28MSD

Lab Name: CEIMIC CORP Contract: 68D90028

ab Code: CEIMIC Case No.: 15322 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910068-02MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4856

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1685

FORM I SV-2 1/87 Rev.

AR303827

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE29MS

Lab Name: CEIMIC CORP. Contract: 68D90029

Lab Code: CEIMIC Case No.: 15339 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910066-02Ms

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST

810/87 Rev

AR303828

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE29MSD

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15329 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 910068-02MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST 1/87 Rev.

AR303829

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE34MS

Lab Name: CEIMIC CORP Contract: 68D80029

Lab Code: CEIMIC Case No.: 15316 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910068-08MS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CB363

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 21 Date Analyzed: 02/13/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	25	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

FORM I VOA

AR303830

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15938 SAS No.: _____ SDG No.: CB627

Instrument ID: MS4 Calibration date: 02/19/91 Time: 1429

Lab File ID: D4812 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRFSO for SPCC(*) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRFSO	%D
Phenol *	1.512	1.679	-11.0 *
bis(2-Chloroethyl)Ether	1.333	1.504	-12.9
2-Chlorophenol	1.298	1.425	-9.8
1,3-Dichlorobenzene	1.520	1.524	-0.9
1,4-Dichlorobenzene *	1.470	1.533	-4.3 *
Benzyl Alcohol	0.704	0.841	-19.5
1,2-Dichlorobenzene	1.408	1.414	-0.4
2-Methylphenol	1.102	1.229	-11.5
bis(2-Chloroisopropyl)Ether	1.740	2.430	-39.7
4-Methylphenol	1.138	1.271	-11.7
N-Nitroso-Di-n-Propylamine #	1.025	1.145	-11.6 #
Hexachloroethane	0.524	0.548	-2.8
Nitrobenzene	0.378	0.410	-8.2
Isophorone	0.756	0.862	-14.4
2-Nitrophenol *	0.217	0.255	-17.5 *
2,4-Dimethylphenol	0.350	0.371	-6.0
Benzoic Acid	0.178	0.228	-27.9
bis(2-Chloroethoxy)Methane	0.492	0.544	-10.6
2,4-Dichlorophenol *	0.311	0.338	-8.0 *
1,2,4-Trichlorobenzene	0.364	0.383	-5.2
Naphthalene	0.946	1.065	-12.6
4-Chloroaniline	0.402	0.424	-5.7
Hexachlorobutadiene *	0.222	0.213	4.5 *
4-Chloro-3-Methylphenol *	0.257	0.288	-11.2 *
2-Methylnaphthalene	0.685	0.726	-10.7
Hexachlorocyclopentadiene #	0.229	0.222	2.9 #
2,4,6-Trichlorophenol *	0.420	0.421	-0.2 *
2,4,5-Trichlorophenol	0.468	0.476	-1.7
2-Chloronaphthalene	1.182	1.213	-1.8
2-Nitroaniline	0.470	0.486	-3.4
Dimethyl Phthalate	1.445	1.574	-8.9
Acenaphthylene	1.765	1.911	-8.2
2,6-Dinitrotoluene	0.406	0.421	-3.7
3-Nitroaniline	0.383	0.383	0.0
Acenaphthene *	1.185	1.312	-10.7 *
2,4-Dinitrophenol #	0.185	0.196	-5.9 #
4-Nitrophenol #	0.154	0.190	-23.4 #

SBLK01

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS4 Calibration date: 02/18/91 Time: 1428

Lab File ID: D4812 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRFSO for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRFSO	%D
Dibenzofuran	1.741	1.837	-5.5
2,4-Dinitrotoluene	0.568	0.585	-3.0
Diethylphthalate	1.581	1.913	-15.0
4-Chlorophenyl-phenylether	0.675	0.703	-4.1
Fluorene	1.441	1.490	-3.4
4-Nitroaniline	0.386	0.392	-1.6
4,6-Dinitro-2-Methylphenol	0.157	0.165	-5.1
N-Nitrosodiphenylamine (1) *	0.477	0.570	-19.5 *
4-Bromophenyl-phenylether	0.231	0.222	3.9
Hexachlorobenzene	0.279	0.253	9.3
Pentachlorophenol *	0.142	0.173	-21.8 *
Phenanthrene	1.052	1.163	-10.6
Anthracene	1.044	1.150	-10.2
Di-n-Butylphthalate	1.669	1.925	-15.3
Fluoranthene *	1.220	1.248	-2.1 *
Pyrene	1.460	1.545	-5.8
Butylbenzylphthalate	0.868	0.965	-11.2
3,3'-Dichlorobenzidine	0.392	0.403	-2.8
Benzo(a)Anthracene	1.326	1.383	-4.3
Chrysene	1.276	1.364	-6.9
bis(2-Ethylhexyl)Phthalate	1.193	1.499	-20.4
Di-n-Octyl Phthalate *	2.225	2.492	-12.0 *
Benzo(b)Fluoranthene	1.509	1.473	2.4
Benzo(k)Fluoranthene	1.142	1.137	0.4
Benzo(a)Pyrene *	1.193	1.234	-3.4 *
Indeno(1,2,3-cd)Pyrene	0.971	1.148	-18.2
Dibenz(a,h)Anthracene	0.912	1.148	-25.9
Benzo(g,h,i)Perylene	0.884	1.098	-24.2
Nitrobenzene-d5	0.372	0.406	-9.1
2-Fluorobiphenyl	1.365	1.270	7.0
Terphenyl-d14	0.846	0.829	2.4
Phenol-d5	1.596	1.606	-0.6
2-Fluorophenol	1.047	1.207	-15.3
2,4,6-Tribromophenol	0.247	0.223	9.7

(1) Cannot be separated from Diphenylamine

548 549

FORM VII SV-2

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS4 Calibration date: 02/21/91 Time: 1337

Lab File ID: D4852 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRF50 for SPCC(*) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Phenol *	1.512	1.725	-14.8	*
bis(2-Chloroethyl)Ether	1.333	1.534	-15.1	
2-Chlorophenol	1.298	1.424	-9.7	
1,3-Dichlorobenzene	1.520	1.586	-4.3	
1,4-Dichlorobenzene *	1.470	1.514	-3.0	*
Benzyl Alcohol	0.704	0.839	-19.2	
1,2-Dichlorobenzene	1.409	1.417	-0.6	
2-Methylphenol	1.102	1.215	-10.2	
bis(2-Chloroisopropyl)Ether	1.740	2.586	-48.5	
4-Methylphenol	1.138	1.226	-7.7	
N-Nitroso-Di-n-Propylamine #	1.026	1.038	-1.2	#
Hexachloroethane	0.624	0.607	2.7	
Nitrobenzene	0.379	0.384	-1.3	
Isophorone	0.756	0.798	-5.6	
2-Nitrophenol *	0.217	0.254	-17.0	*
2,4-Dimethylphenol	0.350	0.356	-1.7	
Benzoic Acid	0.179	0.212	-18.4	
bis(2-Chloroethoxy)Methane	0.492	0.506	-2.8	
2,4-Dichlorophenol *	0.311	0.328	-5.5	*
1,2,4-Trichlorobenzene	0.364	0.359	1.4	
Naphthalene	0.946	0.986	-4.2	
4-Chloroaniline	0.403	0.384	4.7	
Hexachlorobutadiene *	0.222	0.216	3.1	*
4-Chloro-3-Methylphenol *	0.357	0.385	-7.8	*
2-Methylnaphthalene	0.665	0.691	-3.9	
Hexachlorocyclopentadiene #	0.238	0.156	34.7	#
2,4,6-Trichlorophenol *	0.420	0.421	-0.2	*
2,4,5-Trichlorophenol	0.468	0.483	-3.2	
2-Chloronaphthalene	1.182	1.188	0.3	
2-Nitroaniline	0.470	0.488	-3.8	
Dimethyl Phthalate	1.445	1.541	-6.6	
Acenaphthylene	1.763	1.790	-1.4	
2,6-Dinitrotoluene	0.406	0.439	-8.1	
3-Nitroaniline	0.383	0.377	1.6	
Acenaphthene *	1.185	1.226	-3.5	*
2,4-Dinitrophenol #	0.185	0.149	19.5	#
4-Nitrophenol #	0.154	0.172	-11.7	#

CBE 28

CBE 28 MS

CBE 28 MSD

FORM VII SV-1 1550 1/87 Rev

AR303833

SEMIVOLAT... CONTINUING CALIBRATION CHECK

Lab Name: CHEMTEC CORP Contract: 68D90029

Lab Code: CHEMTC Case No.: 15838 SAS No.: _____ SDG No.: CB627

Instrument ID: MS4 Calibration date: 02/21/91 Time: 1337

Lab File ID: D4852 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.741	1.748	-0.4	
2,4-Dinitrotoluene	0.568	0.590	-3.9	
Diethylphthalate	1.581	1.719	-8.7	
4-Chlorophenyl-phenylether	0.675	0.707	-4.7	
Fluorene	1.441	1.452	-0.8	
4-Nitroaniline	0.386	0.401	-3.9	
4,6-Dinitro-2-Methylphenol	0.157	0.145	7.6	
N-Nitrosodiphenylamine (1) *	0.477	0.519	-8.6	*
4-Bromophenyl-phenylether	0.221	0.222	0.9	
Hexachlorobenzene	0.278	0.242	12.9	
Pentachlorophenol *	0.142	0.156	-9.9	*
Phenanthrene	1.052	1.066	-1.3	
Anthracene	1.044	1.060	-0.8	
Di-n-Butylphthalate	1.669	1.827	-9.5	
Fluoranthene *	1.320	1.329	-0.6	*
Pyrene	1.460	1.598	-9.5	
Butylbenzylphthalate	0.868	1.022	-18.0	
3,3'-Dichlorobenzidine	0.392	0.392	0.0	
Benzo(a)Anthracene	1.326	1.461	-10.2	
Chrysene	1.276	1.444	-13.2	
bis(2-Ethylhexyl)Phthalate	1.193	1.527	-29.0	
Di-n-Octyl Phthalate *	2.225	2.732	-18.3	*
Benzo(b)Fluoranthene	1.509	1.458	3.5	
Benzo(k)Fluoranthene	1.142	1.248	-8.3	
Benzo(a)Pyrene *	1.193	1.252	-4.9	*
Indeno(1,2,3-cd)Pyrene	0.971	1.165	-20.0	
Dibenz(a,h)Anthracene	0.912	1.147	-25.9	
Benzo(g,h,i)Perylene	0.884	1.101	-24.6	
Nitrobenzene-d5	0.372	0.379	-1.9	
2-Fluorobiphenyl	1.365	1.319	3.4	
Terphenyl-d14	0.946	0.967	-2.2	
Phenol-d5	1.596	1.601	-0.3	
2-Fluorophenol	1.047	1.258	-20.2	
2,4,6-Tribromophenol	0.247	0.216	12.6	

(1) Cannot be separated from Diphenylamine

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15829 SAS No.: _____ SDG No.: CB627

Instrument ID: MS4 Calibration date: 02/27/91 Time: 1244

Lab File ID: D4807 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D	
Phenol	1.512	1.687	-11.6	*
bis(2-Chloroethyl)Ether	1.322	1.494	-12.1	
2-Chlorophenol	1.298	1.425	-9.8	
1,3-Dichlorobenzene	1.520	1.590	-4.6	
1,4-Dichlorobenzene	1.470	1.503	-2.2	*
Benzyl Alcohol	0.704	0.856	-21.6	
1,2-Dichlorobenzene	1.409	1.456	-3.3	
2-Methylphenol	1.102	1.247	-13.2	
bis(2-Chloroisopropyl)Ether	1.740	2.564	-47.4	
4-Methylphenol	1.138	1.286	-13.0	
N-Nitroso-Di-n-Propylamine	1.026	1.079	-5.2	#
Hexachloroethane	0.614	0.610	2.2	
Nitrobenzene	0.278	0.281	-0.5	
Isophorone	0.756	0.834	-10.3	
2-Nitrophenol	0.217	0.247	-13.9	*
2,4-Dimethylphenol	0.350	0.364	-4.0	
Benzoic Acid	0.179	0.226	-26.3	
bis(2-Chloroethoxy)Methane	0.492	0.522	-6.2	
2,4-Dichlorophenol	0.311	0.340	-9.3	*
1,2,4-Trichlorobenzene	0.364	0.370	-1.6	
Naphthalene	0.946	1.029	-8.8	
4-Chloroaniline	0.402	0.448	-11.2	
Hexachlorobutadiene	0.222	0.207	7.2	*
4-Chloro-3-Methylphenol	0.357	0.389	-9.0	*
2-Methylnaphthalene	0.665	0.746	-12.2	
Hexachlorocyclopentadiene	0.239	0.199	16.7	#
2,4,6-Trichlorophenol	0.420	0.441	-5.0	*
2,4,5-Trichlorophenol	0.468	0.515	-10.0	
2-Chloronaphthalene	1.132	1.231	-8.3	
2-Nitroaniline	0.470	0.479	-1.9	
Dimethyl Phthalate	1.445	1.625	-12.5	
Acenaphthylene	1.765	1.988	-12.6	
2,6-Dinitrotoluene	0.406	0.461	-13.6	
3-Nitroaniline	0.383	0.423	-10.4	
Acenaphthene	1.185	1.320	-11.4	*
2,4-Dinitrophenol	0.185	0.207	-11.9	#
4-Nitrophenol	0.154	0.198	-22.1	#

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AR303835

SEMIVOLATILE CONTINUING CALIBRATIO

Lab Name: CHEMIC CORP Contract: 68D90028

Lab Code: CHEMIC Case No.: 15898 SAS No.: _____ SDG No.: CB627

Instrument ID: MS4 Calibration date: 02/27/91 Time: 1244

Lab File ID: 04907 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRF50 for SPCC(*) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.741	1.982	-8.1	
2,4-Dinitrotoluene	0.568	0.643	-13.2	
Diethylphthalate	1.581	1.777	-12.4	
4-Chlorophenyl-phenylether	0.675	0.727	-7.7	
Fluorene	1.441	1.556	-8.0	
4-Nitroaniline	0.386	0.431	-11.7	
4,6-Dinitro-2-Methylphenol	0.157	0.168	-7.0	
N-Nitrosodiphenylamine (1)	0.477	0.553	-15.9	*
4-Bromophenyl-phenylether	0.231	0.229	1.3	
Hexachlorobenzene	0.279	0.233	16.5	
Pentachlorophenol	0.142	0.160	-12.7	*
Phenanthrene	1.052	1.152	-8.5	
Anthracene	1.044	1.137	-8.9	
Di-n-Butylphthalate	1.669	1.843	-10.4	
Fluoranthene	1.320	1.377	-4.3	*
Pyrene	1.460	1.626	-11.4	
Butylbenzylphthalate	0.968	1.061	-22.2	
3,3'-Dichlorobenzidine	0.392	0.421	-7.4	
Benzo(a)Anthracene	1.326	1.475	-11.2	
Chrysene	1.276	1.450	-13.6	
bis(2-Ethylhexyl)Phthalate	1.193	1.447	-21.3	
Di-n-Octyl Phthalate	2.225	2.482	-10.6	*
Benzo(b)Fluoranthene	1.509	1.427	5.4	
Benzo(k)Fluoranthene	1.142	1.180	-3.3	
Benzo(a)Pyrene	1.193	1.173	1.7	*
Indeno(1,2,3-cd)Pyrene	0.971	1.167	-20.2	
Dibenz(a,h)Anthracene	0.912	1.134	-24.3	*
Benzo(g,h,i)Perylene	0.984	1.141	-28.1	
Nitrobenzene-d5	0.372	0.381	-2.4	
2-Fluorobiphenyl	1.365	1.385	-1.5	
Terphenyl-d14	0.946	1.004	-5.8	
Phenol-d5	1.596	1.614	-1.1	
2-Fluorophenol	1.047	1.240	-18.4	
2,4,6-Tribromophenol	0.247	0.218	11.7	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CB627

Instrument ID: M94 Calibration date: 02/28/91 Time: 1632

Lab File ID: D6252 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	1.512	1.632	-7.9	*
bis(2-Chloroethyl)Ether		1.323	1.459	-9.5	
2-Chlorophenol		1.296	1.362	-4.9	
1,3-Dichlorobenzene		1.520	1.591	-4.7	
1,4-Dichlorobenzene	*	1.470	1.579	-7.4	*
Benzyl Alcohol		0.704	0.479	32.1	
1,2-Dichlorobenzene		1.408	1.524	-8.2	
2-Methylphenol		1.102	1.254	-13.8	
bis(2-Chloroisopropyl)Ether		1.740	2.841	63.3	
4-Methylphenol		1.138	1.425	25.2	
N-Nitroso-di-n-Propylamine	#	1.026	1.166	-13.6	#
Hexachloroethane		0.624	0.617	1.1	
Nitrobenzene		0.379	0.388	-2.6	
Isophorone		0.752	0.794	-5.0	
2-Nitrophenol	*	0.217	0.236	-8.7	*
2,4-Dimethylphenol		0.350	0.370	-5.7	
Benzoic Acid		0.179	0.143	20.1	
bis(2-Chloroethoxy)Methane		0.492	0.512	-4.1	
2,4-Dichlorophenol	*	0.311	0.342	-10.0	*
1,2,4-Trichlorobenzene		0.364	0.383	-5.2	
Naphthalene		0.946	1.012	-7.0	
4-Chloroaniline		0.403	0.383	5.0	
Hexachlorobutadiene	*	0.223	0.236	-5.9	*
4-Chloro-3-Methylphenol	*	0.257	0.420	-17.6	*
2-Methylnaphthalene		0.663	0.811	-22.0	
Hexachlorocyclopentadiene	#	0.239	0.085	64.4	#
2,4,6-Trichlorophenol	*	0.420	0.394	6.2	*
2,4,5-Trichlorophenol		0.468	0.467	0.2	
2-Chloronaphthalene		1.192	1.142	4.2	
2-Nitroaniline		0.470	0.429	8.7	
Dimethyl Phthalate		1.445	1.434	0.8	
Acenaphthylene		1.765	1.721	2.5	
2,6-Dinitrotoluene		0.406	0.406	0.0	
3-Nitroaniline		0.383	0.364	5.0	
Acenaphthene	*	1.185	1.204	-1.6	*
2,4-Dinitrophenol	#	0.185	0.099	46.5	#
4-Nitrophenol	#	0.154	0.138	10.4	#

CBE 35

CBE 34 MSL

FORM VII SV-1 1/87 Rev

AR303837

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CB627

Instrument ID: MS4 ___ Calibration date: 03/29/91 Time: 1632

Lab File ID: 05252 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRFSO for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRFSO	%D	
Dibenzofuran	1.741	1.793	-3.0	
2,4-Dinitrotoluene	0.568	0.554	2.5	
Diethylphthalate	1.521	1.568	0.9	
4-Chlorophenyl-phenylether	0.675	0.715	-5.9	
Fluorene	1.441	1.380	4.2	
4-Nitroaniline	0.386	0.353	8.5	
4,6-Dinitro-2-Methylphenol	0.157	0.134	14.6	
N-Nitrosodiphenylamine (1)	0.477	0.540	-13.2	*
4-Bromophenyl-phenylether	0.231	0.234	-1.3	
Hexachlorobenzene	0.279	0.280	-0.4	
Pentachlorophenol	0.142	0.129	9.9	*
Phenanthrene	1.052	1.080	-2.7	
Anthracene	1.044	1.062	-1.8	
Di-n-Butylphthalate	1.663	1.832	-9.9	
Fluoranthene	1.320	1.392	-5.5	*
Pyrene	1.460	1.592	-8.4	
Butylbenzylphthalate	0.968	0.979	-12.9	
3,3'-Dichlorobenzidine	0.392	0.422	-7.7	
Benzo(a)Anthracene	1.324	1.496	-12.8	
Chrysene	1.278	1.419	-11.1	
bis(2-Ethylhexyl)Phthalate	1.182	1.402	-17.5	
Di-n-Octyl Phthalate	2.225	2.655	-19.3	*
Benzo(b)Fluoranthene	1.509	1.592	-5.5	
Benzo(k)Fluoranthene	1.142	1.338	-17.2	
Benzo(a)Pyrene	1.193	1.310	-9.8	*
Indeno(1,2,3-cd)Pyrene	0.971	1.222	-35.8	
Dibenz(a,h)Anthracene	0.912	1.210	-32.7	
Benzo(g,h,i)Perylene	0.884	1.158	-31.0	
Nitrobenzene-d5	0.372	0.383	-3.0	
2-Fluorobiphenyl	1.365	1.223	10.4	
Terphenyl-d14	0.946	0.968	-2.3	
Phenol-d5	1.596	1.636	-2.5	
2-Fluorophenol	1.047	1.143	-9.2	
2,4,6-Tribromophenol	0.247	0.220	10.9	

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Instrument ID: MS4 Calibration date: 02/01/91 Time: 1257

Lab File ID: D5227 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND		RRF	RRF50	%D	
Phenol	*	1.512	1.552	-2.6	*
bis(2-Chloroethyl)Ether		1.333	1.294	2.9	
2-Chlorophenol		1.298	1.344	-3.5	
1,3-Dichlorobenzene		1.520	1.501	1.2	
1,4-Dichlorobenzene	*	1.470	1.411	4.0	*
Benzyl Alcohol		0.704	0.698	0.9	
1,2-Dichlorobenzene		1.409	1.454	-3.2	
2-Methylphenol		1.102	1.151	-4.4	
bis(2-Chloroisopropyl)Ether		1.740	2.459	-41.3	
4-Methylphenol		1.138	1.260	-10.7	
N-Nitroso-Di-n-Propylamine	#	1.026	1.031	-0.5	#
Hexachloroethane		0.624	0.620	0.6	
Nitrobenzene		0.379	0.372	1.9	
Isophorone		0.756	0.771	-2.0	
2-Nitrophenol	*	0.217	0.248	-14.3	*
2,4-Dimethylphenol		0.350	0.344	1.7	
Benzoic Acid		0.179	0.110	38.6	
bis(2-Chloroethoxy)Methane		0.492	0.487	1.0	
2,4-Dichlorophenol	*	0.311	0.342	-10.0	*
1,2,4-Trichlorobenzene		0.364	0.383	-5.2	
Naphthalene		0.946	1.012	-7.0	
4-Chloroaniline		0.403	0.396	1.7	
Hexachlorobutadiene	*	0.222	0.228	-2.2	*
4-Chloro-3-Methylphenol	*	0.357	0.369	-3.4	*
2-Methylnaphthalene		0.665	0.706	-6.2	
Hexachlorocyclopentadiene	#	0.229	0.152	33.0	#
2,4,6-Trichlorophenol	*	0.420	0.396	5.7	*
2,4,5-Trichlorophenol		0.462	0.399	14.7	
2-Chloronaphthalene		1.192	1.126	5.5	
2-Nitroaniline		0.470	0.409	13.0	
Dimethyl Phthalate		1.445	1.305	9.7	
Acenaphthylene		1.785	1.624	8.0	
2,6-Dinitrotoluene		0.406	0.387	4.7	
3-Nitroaniline		0.382	0.332	13.3	
Acenaphthene	*	1.185	1.168	1.4	*
2,4-Dinitrophenol	#	0.195	0.071	61.6	#
4-Nitrophenol	#	0.154	0.109	29.2	#

CBE 34

70

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: C8627

Instrument ID: MS4 Calibration date: 03/31/91 Time: 1257

Lab File ID: D9277 Init. Calib. Date(s): 12/27/90 12/27/90

Min RRFSO for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRFSO	%D
Dibenzofuran	1.741	1.585	9.0
2,4-Dinitrotoluene	0.563	0.504	11.3
Diethylphthalate	1.581	1.422	10.1
4-Chlorophenyl-phenylether	0.675	0.647	4.1
Fluorene	1.441	1.304	9.5
4-Nitroaniline	0.386	0.260	32.6
4,6-Dinitro-2-Methylphenol	0.157	0.114	27.4
N-Nitrosodiphenylamine (1) *	0.477	0.542	-13.6 *
4-Bromophenyl-phenylether	0.231	0.245	-6.1
Hexachlorobenzene	0.279	0.279	0.0
Pentachlorophenol *	0.142	0.107	24.6 *
Phenanthrene	1.062	1.112	-5.9
Anthracene	1.044	1.026	0.8
Di-n-Butylphthalate	1.669	1.660	0.5
Fluoranthene *	1.320	1.202	8.9 *
Pyrene	1.460	1.719	-17.7
Butylbenzylphthalate	0.863	0.891	-2.6
3,3'-Dichlorobenzidine	0.292	0.333	15.0
Benzo(a)Anthracene	1.326	1.340	-1.1
Chrysene	1.276	1.178	7.7
bis(2-Ethylhexyl)Phthalate	1.190	1.254	-5.1
Di-n-Octyl Phthalate *	2.225	2.594	-16.6 *
Benzo(b)Fluoranthene	1.509	1.494	1.0
Benzo(k)Fluoranthene	1.142	1.379	-20.8
Benzo(a)Pyrene *	1.193	1.271	-6.5 *
Indeno(1,2,3-cd)Pyrene	0.971	1.104	-13.7
Dibenz(a,h)Anthracene	0.912	1.132	-24.1
Benzo(g,h,i)Perylene	0.984	1.052	-19.0
Nitrobenzene-d5	0.372	0.370	0.5
2-Fluorobiphenyl	1.365	1.233	9.7
Terphenyl-d14	0.846	0.870	-2.5
Phenol-d5	1.596	1.589	0.4
2-Fluorophenol	1.047	1.127	-7.6
2,4,6-Tribromophenol	0.247	0.193	21.9

(1) Cannot be separated from Diphenylamine

AR303840

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CSE34MSD

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15333 SAS No.: _____ SDG No.: C8627

Matrix: (soil/water) SOIL Lab Sample ID: 910066-08MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C8364

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 21 Date Analyzed: 02/13/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	22	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

FORM I VOA

1/87 Rev.

AR303841

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE34MS

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15939 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910068-08M

Sample wt/vol: 30.3 (g/mL) G Lab File ID: A7259

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 19 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2400	U
111-44-4	bis(2-Chloroethyl)Ether	2400	U
95-57-8	2-Chlorophenol	2400	U
541-73-1	1,3-Dichlorobenzene	2400	U
106-46-7	1,4-Dichlorobenzene	2400	U
100-51-6	Benzyl Alcohol	2400	U
95-50-1	1,2-Dichlorobenzene	2400	U
95-48-7	2-Methylphenol	2400	U
108-60-1	bis(2-Chloroisopropyl)Ether	2400	U
106-44-5	4-Methylphenol	2400	U
621-64-7	N-Nitroso-Di-n-Propylamine	2400	U
67-72-1	Hexachloroethane	2400	U
98-95-3	Nitrobenzene	2400	U
78-59-1	Isophorone	2400	U
88-75-5	2-Nitrophenol	2400	U
105-67-9	2,4-Dimethylphenol	2400	U
65-85-0	Benzoic Acid	12000	U
111-91-1	bis(2-Chloroethoxy)Methane	2400	U
120-83-2	2,4-Dichlorophenol	2400	U
120-82-1	1,2,4-Trichlorobenzene	2400	U
91-20-3	Napnthalene	2400	U
106-47-8	4-Chloroaniline	2400	U
87-68-3	Hexachlorobutadiene	2400	U
59-50-7	4-Chloro-3-Methylphenol	2400	U
91-57-6	2-Methylnapnthalene	2400	U
77-47-4	Hexachlorocyclopentadiene	2400	U
88-06-2	2,4,6-Trichlorophenol	2400	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	2400	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethyl Phthalate	2400	U
208-96-8	Acenaphthylene	2400	U
606-20-2	2,6-Dinitrotoluene	2400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE34MS

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15238 SAS No.: _____ SDG No.: CB527

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09MS

Sample wt/vol: 30.3 (g/mL) G Lab File ID: A7259

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 18 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/02/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 6.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	2-Nitroaniline	12000	U
83-32-9	Acenaphthene	2400	U
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	2400	U
121-14-2	2,4-Dinitrotoluene	2400	U
84-66-2	Diethylphthalate	980	J
7005-72-3	4-Chlorophenyl-phenylether	2400	U
86-73-7	Fluorene	2400	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-Methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	2400	U
101-55-3	4-Bromophenyl-phenylether	2400	U
118-74-1	Hexachlorobenzene	2400	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	2400	U
120-12-7	Anthracene	2400	U
84-74-2	Di-n-Butylphthalate	2400	U
206-44-0	Fluoranthene	2400	U
129-00-0	Pyrene	2400	U
85-68-7	Butylbenzylphthalate	3500	J
91-94-1	3,3'-Dichlorobenzidine	4800	U
56-55-3	Benzo(a)Anthracene	2400	U
218-01-9	Chrysene	2400	U
117-81-7	bis(2-Ethylhexyl)Phthalate	7200	J
117-84-0	Di-n-Octyl Phthalate	2400	U
205-99-2	Benzo(b)Fluoranthene	2400	U
207-08-9	Benzo(k)Fluoranthene	2400	U
50-32-8	Benzo(a)Pyrene	2400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	2400	U
53-70-3	Dibenz(a,h)Anthracene	2400	U
191-24-2	Benzo(g,h,i)Perylene	2400	U

(1) - Cannot be separated from Diphenylamine

13

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE34MSD

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15808 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-09MS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D5258

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 19 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/29/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)Ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
100-51-6	Benzyl Alcohol	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
108-60-1	bis(2-Chloroisopropyl)Ether	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-Di-n-Propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
65-85-0	Benzoic Acid	3900	U
111-91-1	bis(2-Chloroethoxy)Methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	J
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-Methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	3900	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethyl Phthalate	800	U
208-96-8	Acenaphthylene	800	U
606-20-2	2,6-Dinitrotoluene	800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CBE34MSD

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15338 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: 910068-08MSD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D5258

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 18 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/28/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	800	U
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	1400	
7005-72-3	4-Chlorophenyl-phenylether	800	U
86-73-7	Fluorene	800	U
100-01-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-Methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	800	U
120-12-7	Anthracene	800	U
84-74-2	Di-n-Butylphthalate	97	J
206-44-0	Fluoranthene	800	U
129-00-0	Pyrene	800	U
85-68-7	Butylbenzylphthalate	3100	
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)Anthracene	800	U
218-01-9	Chrysene	800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3600	
117-84-0	Di-n-Octyl Phthalate	800	U
205-99-2	Benzo(b)Fluoranthene	84	J
207-08-9	Benzo(k)Fluoranthene	800	U
50-32-8	Benzo(a)Pyrene	800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	800	U
53-70-3	Dibenz(a,h)Anthracene	800	U
191-24-2	Benzo(g,h,i)Perylene	800	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

C8E34MS

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15338 SAS No.: _____ SDG No.: C8E27

Matrix: (soil/water) SOIL Lab Sample ID: 910068-08MS

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

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 18 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/21/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.7	U
319-85-7	beta-BHC	9.7	U
319-86-8	delta-BHC	9.7	U
58-89-9	gamma-BHC (Lindane)	9.7	U
76-44-8	Heptachlor	9.7	U
309-00-2	Aldrin	9.7	U
1024-57-3	Heptachlor epoxide	9.7	U
959-98-8	Endosulfan I	9.7	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	19	U
72-43-5	Methoxychlor	97	U
53494-70-5	Endrin ketone	19	U
5103-71-9	alpha-Chlordane	97	U
5103-74-2	gamma-Chlordane	97	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	97	U
11104-28-2	Aroclor-1221	97	U
11141-16-5	Aroclor-1232	97	U
53469-21-9	Aroclor-1242	97	U
12672-29-6	Aroclor-1248	97	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C8E34MSD

Lab Name: CEIMIC CORP Contract: 68D90028

Lab Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: C8E27

Matrix: (soil/water) SOIL Lab Sample ID: 910066-08MSD

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

Level: (low/med) LOW Date Received: 02/06/91

% Moisture: not dec. 18 dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/21/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.6	U
319-85-7	beta-BHC	9.6	U
319-86-8	delta-BHC	9.6	U
58-89-9	gamma-BHC (Lindane	9.6	U
76-44-8	Heptachlor	9.6	U
309-00-2	Aldrin	9.6	U
1024-57-3	Heptachlor epoxide	9.6	U
959-98-8	Endosulfan I	9.6	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	19	U
72-43-5	Methoxychlor	96	U
53494-70-5	Endrin ketone	19	U
5103-71-9	alpha-Chlordane	96	U
5103-74-2	gamma-Chlordane	96	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	96	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	96	U
53469-21-9	Aroclor-1242	96	U
12672-29-6	Aroclor-1248	96	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

FORM I PEST

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: V30212-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C6942

Level: (low/med) LOW Date Received: 02/12/91

% Moisture: not dec. 0 Date Analyzed: 02/12/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA AR303848 ~~286~~ 285B 1/87 Rev.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: CEIMIC CORP Contract: 68D80029

Lab Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: 03627

Matrix: (soil/water) SOIL Lab Sample ID: V30212-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 08342

Level: (low/med) LOW Date Received: 02/12/91

% Moisture: not dec. 0 Date Analyzed: 02/12/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: CEIMIC CORP Contract: 63D90028

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: V50212-91

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2925

Level: (low/med) LOW Date Received: 02/12/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15822 SAS No.: _____ SDG No.: C8827

Matrix: (soil/water) SOIL Lab Sample ID: V30213-S1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C8980

Level: (low/med) LOW Date Received: 02/13/91

% Moisture: not dec. 0 Date Analyzed: 02/13/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: CRIMIC CORP Contract: 68D90029

Lab Code: CRIMIC Case No.: 15339 SAS No.: _____ SDG No.: C8627

Matrix: (soil/water) WATER Lab Sample ID: V50213-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2944

Level: (low/med) LOW Date Received: 02/13/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

 1/87 Rev.

AR303852

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: CEIMIC CORP Contract: 68D80029

Lab Code: CEIMIC Case No.: 15339 SAS No.: _____ SDG No.: C8E27

Matrix: (soil/water) WATER Lab Sample ID: V50213-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2944

Level: (low/med) LOW Date Received: 02/13/91

% Moisture: not dec. ____ Date Analyzed: 02/13/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev

AR303853

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: CEIMIC CORP Contract: 68D90009

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: 90211-B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4815

Level: (low/med) LOW Date Received: 02/11/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/18/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15808 SAS No.: _____ SDG No.: CB607

Matrix: (soil/water) WATER Lab Sample ID: S0211-B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4815

Level: (low/med) LOW Date Received: 02/11/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/18/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: C8E27

Matrix: (soil/water) WATER Lab Sample ID: VE0212-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E2925

Level: (low/med) LOW Date Received: 02/12/91

% Moisture: not dec. ____ Date Analyzed: 02/12/91

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 19939 SAS No.: _____ SDG No.: C8E27

Matrix: (soil/water) SOIL Lab Sample ID: V90213-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C8960

Level: (low/med) LOW Date Received: 02/13/91

% Moisture: not dec. 0 Date Analyzed: 02/13/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	2	J
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

AR303857

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15808 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: S0211-B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D4815

Level: (low/med) LOW Date Received: 02/11/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/19/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Unknown	42.73	7.0	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15833 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: S0215-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D4909

Level: (low/med) LOW Date Received: 02/15/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/27/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	42	J
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: CEIMIC CORP Contract: 68D90029

ab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CB627

Matrix: (soil/water) SOIL Lab Sample ID: S0215-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D4908

Level: (low/med) LOW Date Received: 02/15/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/27/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	2-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK03

Lab Name: CEIMIC CORP Contract: 68D80029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: C8627

Matrix: (soil/water) SOIL Lab Sample ID: S0215-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D4808

Level: (low/med) LOW Date Received: 02/15/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/27/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	C9H18 isomer	4.75	530	J
2. 000000	C7H14 isomer	5.05	1400	J
3. 000000	Unknown	5.55	1900	J
4. 123422	2-Pentanone, 4-Hydroxy-4-Met	6.33	22000	AJ
5. 000000	Unknown	7.87	1000	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK02

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15839 SAS No.: _____ SDG No.: C8827

Matrix: (soil/water) WATER Lab Sample ID: S0211-B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A7213

Level: (low/med) LOW Date Received: 02/11/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK02

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15339 SAS No.: _____ SDG No.: C8627

Matrix: (soil/water) WATER Lab Sample ID: S0211-81

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A7213

Level: (low/med) LOW Date Received: 02/11/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 02/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	2-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK02

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) WATER Lab Sample ID: S0211-B1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A7213

Level: (low/med) LOW Date Received: 02/11/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/30/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SV-TIC 1/87 Rev.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK04

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CB627

Matrix: (soil/water) SOIL Lab Sample ID: S0215-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A7276

Level: (low/med) LOW Date Received: 02/15/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	48	J
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK04

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15339 SAS No.: _____ SDG No.: C9E27

Matrix: (soil/water) SOIL Lab Sample ID: S0215-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A7276

Level: (low/med) LOW Date Received: 02/15/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK04

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15838 SAS No.: _____ SDG No.: CB627

Matrix: (soil/water) SOIL Lab Sample ID: S0215-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A7276

Level: (low/med) LOW Date Received: 02/15/91

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/03/91

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Unknown	4.78	570	J
2. 000000	C8H10O isomer	5.07	2100	J
3. 000000	Unknown	5.60	1700	J
4. 123422	4-Hydroxy-4-methyl-2-pentano	6.35	37000	AJ
5. 000000	Unknown	7.87	300	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15339 SAS No.: _____ SDG No.: CBE27

Matrix: soil/water WATER Lab Sample ID: 90211-81

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 03/16/91

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02

Lab Name: CERMIC CORP Contract: 68D90029

Lab Code: CERMIC Case No.: 15333 SAS No.: _____ SDG No.: C8E07

Matrix: (soil/water) WATER Lab Sample ID: 80211-81A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/11/91

Extraction: (Sep F/Cont/Sonc) SEPF Date Analyzed: 02/20/91

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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1804 1/87 Rev

AR303869

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK03

Lab Name: CEIMIC CORP Contract: 68D90029

Lab Code: CEIMIC Case No.: 15828 SAS No.: _____ SDG No.: CBE27

Matrix: (soil/water) SOIL Lab Sample ID: P0215-91

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 02/15/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/21/91

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	80	U
5103-74-2	gamma-Chlordane	80	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

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1807 1/87 Rev

AR303870