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ORIGINAL (Red)

Site Inspection of the Chesapeake Shipbuilding Site (MD-374)

Data Validation Reports

ORIGINAL (Red)

Volume II

June, 1995

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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QUALITY
ASSURANCE
BRANCH

DATE : March 6, 1995

SUBJECT: Region III Data QA Review

FROM : Cynthia E. Caporale C. Caporale
Region III ESAT RPO (3ES30)

TO : Latife Leraas
State of Maryland

Attached is the inorganic data validation report for the Cheaspeake Shipbuiling Site (Case 23084) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me at (410) 573-6832.

Attachment

cc: Mike Giuranna, RPO, w/o attachment (3HW73)

TID File:03950218

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MAR 8 1995

Projects Division

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ORIGINAL (Red)

Lockheed

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DATE: February 22, 1995

SUBJECT: INORGANIC DATA VALIDATION, Case 23084
SITE: CHESAPEAKE SHIPBUILDING

FROM: BEHROOZ KHOSHKHOO — INORGANIC DATA REVIEWER
MAHBOOBEH MECANIC — SENIOR OVERSIGHT CHEMIST

TO: CYNTHIA E. CAPORALE
ESAT REGIONAL PROJECT OFFICER

THROUGH: DALE S. BOSHART
ESAT TEAM MANAGER

OVERVIEW

The set of samples for Case 23084 was analyzed by ITAS Pittsburgh, Pennsylvania Laboratory (ITPA) according to the Contract Laboratory Program (CLP) Routine Analytical Services (RAS) Statement of Work (SOW) ILM03.0. The samples were collected on two (2) different days and analyzed under two Sample Delivery Groups (SDGs). The sample set consisted of twelve (12) soil and ten (10) aqueous samples including two (2) field duplicate pairs and one (1) field blank.

SUMMARY

All analytes were successfully analyzed in all samples.

Areas of concern with respect to data usability are listed according to the seriousness of the problem. The data were qualified on SDG bases. These include:

MAJOR PROBLEMS

The matrix spike recovery fell below 30% for the lead (Pb) analyte in SDG MCQN44 . The positive results may be biased extremely low and have been qualified "L". The "L" qualifiers have been superseded by the "J" qualifiers, due to the duplicate outlier discussed under minor problems.

MINOR ISSUES

The field (FB) blank had a reported result greater than IDL for the chromium (Cr), iron (Fe) and zinc (Zn) analytes. The reported results for these analytes in SDG MCQN40 and MCQN44 which are less than five times (<5X) the blank concentrations may be biased high and have been qualified "B".

The preparation (PB) blank had reported results greater than IDL for the calcium (Ca), Fe, magnesium (Mg), sodium (Na) and Zn analytes. The reported results for these analytes in SDG MCQN40 which are less than five times (<5X) the blank concentrations may be biased high and have been qualified "B".

The continuing calibration (CCB) blank had reported results greater than IDL for the analytes aluminum (Al) and barium (Ba) in SDG MCQN40 and beryllium (Be) in SDG MCQN44. The reported results for these analytes which are less than five times (<5X) the blank concentrations may be biased high and have been qualified "B".

The laboratory duplicate results were outside the control limits of 35% RPD for the analyte Pb in the soil matrix. The reported results for this analyte in SDG MCQN44 are estimated and have been qualified "J".

A positive result, whose absolute value was >IDL, was observed for the analyte Sb in ICP Interference Check Sample (ICS) solution AB. The possibility of false positive in samples containing equivalent levels of the interferant analytes as those present in the ICS solutions may exist. Sample MCQN53 contained a comparable level of the interferant analyte Fe; therefore, the positive result for this analyte may be biased high. However, due to the low matrix spike recovery for this analyte, the reported result for this analyte in this sample is estimated and has been qualified "J", due the opposing bias effect.

The CRDL standard recoveries were mixed (high and low) for Se analyte in SDG MCQN44. The quantitation limit and reported results which are <2X CRDL are estimated due to opposing bias effect and have been qualified "UJ" and "J", respectively.

The matrix spike recoveries were low (30-74%) for the antimony (Sb) and mercury (Hg) analytes. Quantitation limits and reported results in SDG MCQN44 may be biased low and have been qualified "UL" and "L", respectively, except when superseded by "J" qualifier.

The Contract Required Detection Limit (CRDL) standard recovery was low for the cadmium (Cd) analyte. The reported results in samples MCQN44-MCQN55 which are <2X CRDL and the quantitation limit for this analyte may be biased low and have been qualified "L" and "UL", respectively.

The CRDL standard recoveries were high for the analytes Pb in SDG MCQN40 and thallium (Tl) in SDG MCQN44. The reported results which are <2X CRDL may be biased high and have been qualified "K".

Positive results, whose absolute values were >IDL, were observed for the analytes arsenic (As) and Tl in ICP Interference Check Samples (ICS), solutions A and B. The possibility of false positive in samples containing equivalent levels of the interferant analytes as those present in the ICS solutions may exist. Sample MCQN53 contains a comparable level of the interferant analyte Fe; therefore, the positive result for this analyte may be biased high and has been qualified "K".

The matrix spike recovery was high (>125%) for the copper (Cu) analyte. The reported results for this analyte in SDG MCQN44 may be biased high and have been qualified "K".

NOTES

The laboratory marked results for the Ba and calcium (Ca) analytes in SDG MCQN44 on Form Is with an * denoting laboratory duplicate results outside of the contractual control limits of 20% RPD or ± 2X CRDL. For soil samples, however, the technical control limits of 35% RPD or ± 2X CRDL were not exceeded for these analytes. The affected data were not qualified during validation.

Field duplicate results for the soil field duplicate pair were within the technical control limits (35% RPD or ± 2X CRDL) for all analytes except manganese (Mn) in SDG MCQN44.

Field duplicate results for the aqueous field duplicate pair were within the technical control limits (± CRDL) for all analytes except copper (Cu), Fe and Pb in SDG MCQN40. These results are reported in Table 4. Because there are no criteria established in Region III for field duplicate precision, no data were qualified.

Soil sample reported results are calculated on the basis of the raw data value (in µg/L), the gram weight of sample used, the volume of the digestate/distillate, and the % solids according to the following equation:

$$mg/Kg = \frac{(\text{raw value, } \mu g/L)(\text{digestate volume, } L)}{(\text{weight, } g)(\% \text{ solids}/100)}$$

To obtain the quantitation limit, insert the IDL (Form X) for the raw value; refer to Forms XIII to obtain each sample preparation weight and volume used. The quantitation limits thus obtained are specific for each sample and preparation method.

The data were reviewed in accordance with the National Functional Guidelines for Evaluating Inorganic Analyses, with modifications for use within Region III.

INFORMATION REGARDING REPORT CONTENT

Table 1A is a summary of qualifiers added to the laboratory's results during evaluation.

ATTACHMENTS

TABLE 1A	SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION
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CHE3084.BLD

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: CHESAPEAKE SHIPBUILDING

WATER SAMPLES
(ug/L)

Case #: 23084 Sampling Date(s): 12/21/94 - 12/22/94

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

SDG #: MCQN40

	Sample No.	MCQN35	MCQN36	MCQN37	MCQN38	MCQN39	MCQN40	MCQN41	MCQN42	MCQN43	MCQN56
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location	RES-1	RES-2	RES-3	RES-4	RES-5	SW-1	SW-2	SW-3	SW-4	B-1
			SAMPLE IS A FIELD DUP. OF MCQN39			SAMPLE IS A FIELD DUP. OF MCQN36					SAMPLE IS A FIELD BLANK.
CRDL	ANALYTE										
200	Aluminum	[35.4]	[112]	[23.6] B	[20.6] B	[25.8] B	544	234	210	[152]	
60	Antimony										
10	*Arsenic							[2.4]			
200	Barium	[113]	[122]	[67.6]	[101]	[119]	[139]	[98.1]	[105]	[94.5]	[0.83] B
5	Beryllium		[0.20]		[0.23]	[0.18]	[0.22]	[0.10]	[0.10]		
5	*Cadmium										
5000	Calcium	10100	7840	5680	6190	7700	9330	8480	8180	8070	[21.2] B
10	*Chromium	[2.5] B	[4.5] B	[1.8] B	[2.0] B	[2.4] B	[3.2] B	[2.0] B		[2.1] B	[1.9]
50	Cobalt										
25	Copper	[8.3]	78.8	[23.0]	29.9	[23.5]	[6.8]	[3.3]	[2.9]	[2.4]	
100	Iron	[58.7]	272	[28.5] B	[40.3] B	[61.3]	1500	754	727	621	[8.7] B
3	*Lead		17.0	[1.5] K	[2.0] K	[2.9] K	10.6	[1.9] K	[2.4] K		
5000	Magnesium	[1930]	[1600]	[1410]	[1280]	[1440]	[2590]	[2570]	[2490]	[2480]	[12.9] B
15	Manganese	[1.7]	[4.8]	[2.4]	[4.5]	[2.8]	116	51.3	51.5	46.3	
0.2	Mercury										
40	*Nickel						[4.6]				
5000	Potassium	[2080]	[2630]	[2160]	[2380]	[2430]	[2830]	[2760]	[2730]	[2880]	
5	Selenium										
10	Silver										
5000	Sodium	12100	9450	9130	9570	9440	10900	10400	10600	10600	[32.5] B
10	Thallium										
50	Vanadium						[2.6]				
20	Zinc	[9.0] B	39.2 B	[18.4] B	164	36.8 B	71.0	62.5 B	24.7 B	20.2 B	[13.2] B
10	*Cyanide										

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 07/90

Site Name: CHESAPEAKE SHIPBUILDING

SOIL SAMPLES
(mg/Kg)

Case #: 23084 Sampling Date(s): 12/21/94

SDG #: MCQN44

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

	Sample No.	MCQN44		MCQN45		MCQN46		MCQN47		MCQN48		MCQN49		MCQN50		MCQN51		MCQN52		MCQN53	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
	% Solids	78.8		20.2		77.6		72.2		81.5		77.0		91.8		79.4		90.2		94.6	
	Location	SED-1		SED-2		SED-3		SED-4		S-1		S-2		S-3		S-4		S-5		S-6	
																				SAMPLE IS A FIELD DUP. OF MCQN55	
CRDL	ANALYTE																				
40	Aluminum	696		17000		5190		2630		3150		12700		4540		6070		19900		75700	
12	Antimony		UL		UL	[3.0]	L	[5.1]	L	[3.5]	L		UL		UL		UL	[4.1]	L	[9.0]	J
2	Arsenic	[0.54]		10.8		[2.0]		[0.63]		[0.82]		2.8		[1.1]		[1.9]		[2.0]		[1.5]	K
40	Barium	[6.4]		506		69.3		[21.7]		[28.0]		56.7		563		138		191		810	
1	Beryllium	[0.06]	B	[2.9]		[0.45]		[0.28]		[0.12]	B	[0.71]		[0.22]		[0.24]		[0.89]		3.9	
1	Cadmium		UL	[4.5]	L	[0.43]	L		UL	[0.55]	L	[1.2]	L		UL		UL		UL	[0.99]	L
1000	Calcium	[113]		4890		3840		[267]		3260		31200		6310		14000		8370		28100	
2	Chromium	[1.8]	B	48.8		16.0		4.7		5.3		80.7		30.5		11.6		39.3		166	
10	Cobalt			[14.9]		[4.1]		[1.0]		[1.4]		[4.9]		[3.8]		[2.4]		[7.1]		19.8	
5	Copper	[1.1]	K	120	K	44.7	K	[4.2]	K	10.7	K	385	K	1930	K	44.6	K	50.6	K	831	K
20	Iron	578		30600		13400		2570		2250		11300		7130		7120		26900		103000	
0.6	*Lead	5.3	J	197	J	52.2	J	8.9	J	58.6	J	219	J	103	J	194	J	185	J	20.4	J
1000	Magnesium	[54.6]		[2290]		2050		[176]		1380		15300		1530		4150		3360		4630	
3	Manganese	7.0		258		84.8		12.8		61.0		232		101		75.7		355		454	
0.1	Mercury		UL	1.5	L		UL		UL		UL	1.3	L	1.2	L	0.40	L		UL		UL
8	Nickel			[22.6]		9.9		[2.2]		[6.5]		12.1		[5.0]		13.1		10.3		40.8	
1000	Potassium	[114]		[1230]		[386]		[187]		[372]		1490		[654]		[481]		2670		6160	
1	Selenium		UJ	[3.8]	J		UJ		UJ		UJ		UJ		UJ		UJ		UJ	2.2	J
2	Silver			[3.9]																	
1000	Sodium	[57.7]		[469]		[347]		[74.9]		[87.9]		[296]		[214]		[222]		1220		6270	
2	Thallium																			[1.5]	K
10	Vanadium	[1.2]		[35.0]		[9.4]		[4.3]		[6.5]		31.7		[7.5]		[8.3]		26.8		98.0	
4	Zinc	7.8	B	501		129		19.3		233		1260		587		249		219		360	
1	Cyanide																				

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 07/90

Site Name: CHESAPEAKE SHIPBUILDING

SOIL SAMPLES
(mg/Kg)

Case #: 23084 Sampling Date(s): 12/21/94

+ Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

SDG #: MCQN44

	Sample No.	MCQN54		MCQN55													
	Dilution Factor	1.0		1.0													
	% Solids	86.9		94.5													
	Location	S-7		S-8													
				SAMPLE IS A FIELD DUP. OF MCQN53													
CRDL	ANALYTE																
40	Aluminum	8710		67400													
12	Antimony	[3.0]	L		UL												
2	Arsenic	[1.3]		[1.1]													
40	Barium	[72.3]		739													
1	Beryllium	[0.22]		3.5													
1	Cadmium	[0.71]	L	[0.81]	L												
1000	Calcium	2210		25200													
2	Chromium	30.1		145													
10	Cobalt	[7.2]		16.4													
5	Copper	147	K	1010	K												
20	Iron	21800		76100													
0.6	*Lead	21.2	J	20.6	J												
1000	Magnesium	4610		4410													
3	Manganese	347		304													
0.1	Mercury		UL		UL												
8	Nickel	15.7		33.3													
1000	Potassium	2220		5540													
1	Selenium	[0.60]	J	1.4	J												
2	Silver																
1000	Sodium	[285]		5400													
2	Thallium			[1.7]	K												
10	Vanadium	21.9		88.8													
4	Zinc	590		338													
1	Cyanide																

CRDL = Contract Required Detection Limit

*Action Level Exists

SEE NARRATIVE FOR CODE DEFINITIONS

revised 07/90

TABLE 1A

SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION

ANALYTE	SDG	SAMPLES AFFECTED	POSITIVE VALUES	NON-DETECTED VALUES	BIAS	COMMENTS*
Al	MCQN40	MCQN37-MCQN39	B		HIGH	CCB (12.5 µg/L)
Sb	MCQN44	All samples except, MCQN53	L	UL	LOW	MSL (37.5%)
		MCQN53	J			ICM (16 µg/L,37.5%)
As	MCQN44	MCQN53	K		HIGH	ICP (3.0 µg/L)
Ba	MCQN40	MCQN56	B		HIGH	CCB (1.1 µg/L)
Be	MCQN44	MCQN44,MCQN48	B		HIGH	CCB (0.1 µg/L)
Cd	MCQN44	All samples	L	UL	LOW	CRL (88.7%)
Ca	MCQN40	MCQN56	B		HIGH	PB (11.5 µg/L)
Cr	MCQN40	MCQN35-MCQN41, MCQN43	B		HIGH	FB (1.9 µg/L)
	MCQN44	MCQN44	B		HIGH	FB (1.9 µg/L)
Cu	MCQN44	All samples	K		HIGH	MSH (144%)
Fe	MCQN40	MCQN37-MCQN38	B		HIGH	FB (8.7 µg/L)
		MCQN56	B		HIGH	PB (5.1 µg/L)
Pb	MCQN40	MCQN37-MCQN39 MCQN41-MCQN42	K		HIGH	CRH (123%,120%)
	MCQN44	All samples	J			MSD (57.7%,24.8%)
Mg	MCQN40	MCQN56	B		HIGH	PB (11.4 µg/L)
Hg	MCQN44	All samples	L	UL	LOW	MSL (65.6%)

* See explanation of Comments on Table 1B.

TABLE 1A

SUMMARY OF QUALIFIERS ON DATA SUMMARY AFTER DATA VALIDATION

ANALYTE	SDG	SAMPLES AFFECTED	POSITIVE VALUES	NON-DETECTED VALUES	BIAS	COMMENTS*
Se	MCQN44	All samples	J	UJ		CRM (114%,87.4%)
Na	MCQN40	MCQN56	B		HIGH	PB (11.5 µg/L)
Tl	MCQN44	MCQN53	K		HIGH	CRH (122%,125%) ICP (11.6 µg/L)
		MCQN55	K		HIGH	CRH (122%,125%)
Zn	MCQN40	MCQN35-MCQN37, MCQN39-MCQN43	B		HIGH	FB (13.2 µg/L)
		MCQN56	B		HIGH	PB (3.2 µg/L)
	MCQN44	MCQN44	B		HIGH	FB (13.2 µg/L)

* See explanation of Comments on Table 1B.

TABLE 1B
CODES USED IN COMMENTS COLUMN

CCB = The CCB had a result >IDL (the result is in parentheses) and the reported results were <5x the blank concentration. The reported results may be biased high.

MSL = Because of a low matrix spike recovery (% recovery is in parentheses), the quantitation limits and reported results may be biased low.

ICM = A positive result, whose absolute value was >IDL, in the ICP Interference Check Sample (ICS) solutions A and B, and a low matrix spike recovery (the result is in parentheses) resulted in opposing effects. Quantitation limits and reported results are estimated.

ICP = A positive result, whose absolute value was >IDL, was observed in ICP Interference Check Sample (ICS) solutions A and B (the result is in parentheses). Quantitation limits and reported results may be biased high.

CRL = The CRDL standard recovery was low (% recovery is in parentheses). The quantitation limits and reported results <2xCRDL may be biased low.

PB = The PB had a result >IDL (the result is in parentheses) and the reported results were <5x the blank concentration. The reported results may be biased high.

FB = The FB had a result >IDL (the result is in parentheses) and the reported results were <5x the blank concentration. The reported results may be biased high.

MSH = Because of a high matrix spike recovery (% recovery is in parentheses), the reported results may be biased high.

CRH = The CRDL standard recovery was high (% recovery is in parentheses), the reported results <2xCRDL may be biased high.

MSD = The laboratory duplicate results were outside the control limits of 35% RPD and the matrix spike recovery was extremely low (the results are in parentheses). Quantitation limits and reported results are estimated.

CRM = The initial and final CRDL standard recoveries were respectively high and low (% recoveries are in parentheses). The quantitation limits and reported results <2x CRDL are estimated.

TABLE 2

GLOSSARY OF DATA QUALIFIER CODES (INORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of analytes):

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.

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.

[] = Analyte present. As values approach the IDL the quantitation may not be accurate.

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

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

Q = No analytical result.

TABLE 4

SUMMARY OF FIELD DUPLICATE RESULTS
OUTSIDE CONTROL LIMITS

SDG# MCQN40

	Concentration (ug/L)		
Analyte	MCQN36	MCQN39	Difference (ug/L)
Cu	78.8	[23.5]	55.3
Fe	272	[61.3]	210.7
Pb	17.0	[2.9]	14.1

SDG# MCQN44

	Concentration (mg/Kg)		
Analyte	MCQN53	MCQN55	RPD
Mn	454	304	57%

APPENDIX A

RESULTS REPORTED BY LABORATORY

FORM I:

MCQN40

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084 SAS No.: _____ SDG No.: MCQN40

SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
MCQN35	MCQN35
MCQN35D	MCQN35D
MCQN35S	MCQN35S
MCQN36	MCQN36
MCQN37	MCQN37
MCQN38	MCQN38
MCQN39	MCQN39
MCQN40	MCQN40
MCQN41	MCQN41
MCQN42	MCQN42
MCQN43	MCQN43
MCQN56	MCQN56

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

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

Signature: [signature] Name: [signature]

Date: 1/25/95 Title: Project Manager

REVIEWED BY: [signature]
DATE: 1/25/95

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN35

Lab Name: ITHS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

Matrix (soil/water): WATER Lab Sample ID: MCQN35

Level (low/med): LOW__ Date Received: 12/23/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.4	B		P
7440-36-0	Antimony	12.2	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	113	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	2.5	B		P
7440-48-4	Cobalt	1.9	U		P
7440-50-8	Copper	8.3	B		P
7439-89-6	Iron	58.7	B		P
7439-92-1	Lead	1.4	U		P
7439-95-4	Magnesium	19300	B		P
7439-96-5	Manganese	1.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.3	U		P
7440-09-7	Potassium	2080	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	12100			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	9.0	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN36

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

Matrix (soil/water): WATER Lab Sample ID: MCQN36

Level (low/med): LOW__ Date Received: 12/23/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	112	B		P_
7440-36-0	Antimony_	12.2	U		P_
7440-38-2	Arsenic__	2.3	U		P_
7440-39-3	Barium___	122	B		P_
7440-41-7	Beryllium	0.20	B		P_
7440-43-9	Cadmium__	1.5	U		P_
7440-70-2	Calcium__	8400			P_
7440-47-3	Chromium_	4.5	B		P_
7440-48-4	Cobalt___	1.9	U		P_
7440-50-8	Copper___	8.8			P_
7439-89-6	Iron_____	272			P_
7439-92-1	Lead_____	17.0			P_
7439-95-4	Magnesium	1600	B		P_
7439-96-5	Manganese	4.8	B		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	4.3	U		P_
7440-09-7	Potassium	2630	B		P_
7782-49-2	Selenium_	2.6	U		P_
7440-22-4	Silver___	2.0	U		P_
7440-23-5	Sodium___	9450			P_
7440-28-0	Thallium_	4.0	U		P_
7440-62-2	Vanadium_	1.4	U		P_
7440-66-6	Zinc_____	39.2			P_
_____	Cyanide__	5.0	U		AS
_____	_____	_____			__

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN37

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPH__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

Matrix (soil/water): WATER Lab Sample ID: MCQN37

Level (low/med): LOW__ Date Received: 12/23/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23.6	B		P
7440-36-0	Antimony	12.2	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	67.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium	5680			P
7440-47-3	Chromium	1.8	B		P
7440-48-4	Cobalt	1.9	U		P
7440-50-8	Copper	23.0	B		P
7439-89-6	Iron	28.5	B		P
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium	1410	B		P
7439-96-5	Manganese	2.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.3	U		P
7440-09-7	Potassium	2160	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	9130			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	18.4	B		P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN38

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

Matrix (soil/water): WATER Lab Sample ID: MCQN38

Level (low/med): LOW__ Date Received: 12/23/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20.6	B		P
7440-36-0	Antimony	12.2	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	101	B		P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium	6190			P
7440-47-3	Chromium	2.0	B		P
7440-48-4	Cobalt	1.9	U		P
7440-50-8	Copper	29.9			P
7439-89-6	Iron	40.3	B		P
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium	1280	B		P
7439-96-5	Manganese	4.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.3	U		P
7440-09-7	Potassium	2360	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	5570			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	164			P
	Cyanide	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCGN39

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCGN40

Matrix (soil/water): WATER Lab Sample ID: MCGN39

Level (low/med): LOW__ Date Received: 12/23/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	25.8	B		P_
7440-36-0	Antimony_	12.2	U		P_
7440-38-2	Arsenic__	2.3	U		P_
7440-39-3	Barium___	119	B		P_
7440-41-7	Beryllium	0.18	B		P_
7440-43-9	Cadmium__	1.5	U		P_
7440-70-2	Calcium__	7700	_		P_
7440-47-3	Chromium_	2.4	B		P_
7440-48-4	Cobalt___	1.9	U		P_
7440-50-8	Copper___	23.5	B		P_
7439-89-6	Iron_____	61.3	B		P_
7439-92-1	Lead_____	2.9	B		P_
7439-95-4	Magnesium	1440	B		P_
7439-96-5	Manganese	2.8	B		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	4.3	U		P_
7440-09-7	Potassium	2430	B		P_
7782-49-2	Selenium_	2.5	U		P_
7440-22-4	Silver___	2.0	U		P_
7440-23-5	Sodium___	9440	_		P_
7440-28-0	Thallium_	4.0	U		P_
7440-62-2	Vanadium_	1.4	U		P_
7440-66-6	Zinc_____	36.8	_		P_
_____	Cyanide__	5.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN40

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

Matrix (soil/water): WATER Lab Sample ID: MCQN40

Level (low/med): LOW__ Date Received: 12/22/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	544			P
7440-36-0	Antimony	12.2	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	139	B		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	1.3	U		P
7440-70-2	Calcium	93300			P
7440-47-3	Chromium	3.2	B		P
7440-48-4	Cobalt	1.9	U		P
7440-50-8	Copper	6.8	B		P
7439-89-6	Iron	1500			P
7439-92-1	Lead	10.6			P
7439-95-4	Magnesium	2590	B		P
7439-96-5	Manganese	116			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium	2830	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	10900			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	2.6	B		P
7440-66-6	Zinc	71.0			P
	Cyanide	5.0	U		AS

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN41

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

Matrix (soil/water): WATER Lab Sample ID: MCQN41

Level (low/med): LOW__ Date Received: 12/22/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2341			P
7440-36-0	Antimony	12.2	U		P
7440-38-2	Arsenic	2.4	B		P
7440-39-3	Barium	96.1	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium	8480			P
7440-47-3	Chromium	2.0	B		P
7440-48-4	Cobalt	1.9	U		P
7440-50-8	Copper	3.3	B		P
7439-89-6	Iron	754			P
7439-92-1	Lead	1.9	B		P
7439-95-4	Magnesium	25700	B		P
7439-96-5	Manganese	31.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.3	U		P
7440-09-7	Potassium	2760	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	10400			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	62.5			P
	Cyanide	5.0	U		AS

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN42

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

Matrix (soil/water): WATER Lab Sample ID: MCQN42

Level (low/med): LOW__ Date Received: 12/22/94

% Solids: __0.0

Concentration units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	210			P
7440-36-0	Antimony_	12.2	U		P
7440-38-2	Arsenic__	2.3	U		P
7440-39-3	Barium___	105	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium__	1.5	U		P
7440-70-2	Calcium__	8180			P
7440-47-3	Chromium_	1.8	U		P
7440-48-4	Cobalt___	1.9	U		P
7440-50-8	Copper___	2.9	B		P
7439-89-6	Iron_____	727			P
7439-92-1	Lead_____	2.4	B		P
7439-95-4	Magnesium	2490	B		P
7439-96-5	Manganese	51.5			P
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	4.3	U		P
7440-09-7	Potassium	2730	B		P
7782-49-2	Selenium_	2.6	U		P
7440-22-4	Silver___	2.0	U		P
7440-23-5	Sodium___	10600			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.4	U		P
7440-66-6	Zinc_____	24.7			P
_____	Cyanide__	5.0	U		AS
_____	_____				

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLOUDY Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCWN43

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCWN40

Matrix (soil/water): WATER Lab Sample ID: MCWN43

Level (low/med): LOW__ Date Received: 12/22/94

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	152	B		P
7440-36-0	Antimony	12.2	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	94.5	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium	8070			P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	1.9	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	621			P
7439-92-1	Lead	1.4	U		P
7439-95-4	Magnesium	2480	B		P
7439-96-5	Manganese	46.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.3	U		P
7440-09-7	Potassium	2880	B		P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	10600			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	20.2			P
	Cyanide	5.0	U		AS

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLOUDY Artifacts: _____

Comments:

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MCQN44

[illegible]

[illegible] _____ [illegible]

[illegible] Case [illegible] _____ [illegible] MCQN44

[illegible]

EPA Sample ID	Lab Sample ID
_MCQN44	_MCQN44
_MCQN45	_MCQN45
_MCQN46	_MCQN46
_MCQN47	_MCQN47
_MCQN48	_MCQN48
_MCQN49	_MCQN49
_MCQN50	_MCQN50
_MCQN51	_MCQN51
_MCQN51D	_MCQN51D
_MCQN51S	_MCQN51S
_MCQN52	_MCQN52
_MCQN53	_MCQN53
_MCQN54	_MCQN54
_MCQN55	_MCQN55

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

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

Signature: [signature] Name: David A Dunlap

Date: 1/25/95 Title: Project Manager

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REVIEWED BY: MTW
DATE: 1/24/95

[illegible]

[illegible] NO.

[illegible]

MCQN44

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: _____ SDG No.: MCQN44

[illegible] Lab Sample ID: MCQN44

Level (low/med): Low__ Date Received: 12/22/94

% Solids: _/8.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[illegible]		*	P
7440-36-0	Antimony	[illegible]	U	N	P
7440-[illegible]	Arsenic	0.[illegible]	B		P
7440-[illegible]	Barium	6.4	B	*	P
7440-[illegible]	Beryllium	0.06	B		P
7440-43-9	Cadmium	0.38	U		P
7440-70-2	Calcium	113	B	*	P
7440-47-3	Chromium	1.8	B		P
7440-48-4	Cobalt	0.48	U		P
7440-50-8	Copper	1.1	B	N	P
7439-89-6	Iron	578			P
7439-92-1	Lead	5.3		N*	P
7439-95-4	Magnesium	54.6	B		P
7439-96-5	Manganese	7.0			P
7439-97-6	Mercury	0.13	U	N	CV
7440-02-0	Nickel	1.1	U		P
7440-09-[illegible]	Potassium	114	B		P
7782-49-2	Selenium	0.66	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	57.7	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	1.2	B		P
7440-66-6	Zinc	7.8			P
	Cyanide	3.2	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: BROWN____ Clarity After: _____ Artifacts: YES____

Comments:

ARTIFACTS: __STONES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN45

Lab Name: CAS/PITTSBURGH Contract: 68-D0-0043

Lab Code: IIPA Case No.: 23084 SAS No.: SDG No.: MCQN44

Matrix (Soil/Water): SOIL Lab Sample ID: MCQN45

Level (Low/Med): LOW Date Received: 12/22/94

% Solids: 20.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17000		*	P
7440-36-0	Antimony	1.0	U	N	P
7440-38-2	Arsenic	0.8			P
7440-39-3	Barium	506		*	P
7440-41-7	Beryllium	2.9	B		P
7440-43-9	Cadmium	4.0	B		P
7440-70-2	Calcium	4890		*	P
7440-47-3	Chromium	48.8			P
7440-48-4	Cobalt	14.9	B		P
7440-50-8	Copper	120		N	P
7439-89-6	Iron	30600			P
7439-92-1	Lead	197		N*	P
7439-95-4	Magnesium	2290	B		P
7439-96-5	Manganese	258			P
7439-97-6	Mercury	1.5		N	CV
7440-02-0	Nickel	22.6	B		P
7440-09-7	Potassium	2300	B		P
7782-49-2	Selenium	3.8	B		P
7440-22-4	Silver	3.9	B		P
7440-23-5	Sodium	469	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	35.0	B		P
7440-66-6	Zinc	501			P
	Cyanide	12.4	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

ARTIFACTS: SLUDGE

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MLGN46

Lab Name: CAS_PITTSBURGH_____ Contract: 68-D3-0046

Lab Code: CPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MLGN44

Matrix (Soil/Water): SOIL_ Lab Sample ID: MLGN46

Level (low/med): LOW__ Date Received: 12/22/94

% Solids: _77.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5190		*	P
7440-36-0	Antimony	3.0	B	N	P
7440-38-2	Arsenic	2.0	B		P
7440-39-3	Barium	59.3		*	P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.43	B		P
7440-70-2	Calcium	3840		*	P
7440-47-3	Chromium	16.0			P
7440-48-4	Cobalt	4.1	B		P
7440-50-8	Copper	44.7		N	P
7439-89-6	Iron	13400			P
7439-92-1	Lead	52.2		N*	P
7439-95-4	Magnesium	2050			P
7439-96-5	Manganese	84.8			P
7439-97-6	Mercury	0.13	U	N	CV
7440-02-0	Nickel	9.9			P
7440-09-7	Potassium	386	B		P
7782-49-2	Selenium	0.64	U		P
7440-22-4	Silver	0.49	U		P
7440-23-5	Sodium	347	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	9.4	B		P
7440-66-6	Zinc	129			P
	Cyanide	3.2	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: BROWN____ Clarity After: _____ Artifacts: YES___

Comments:
ARTIFACTS: STONES AND LEAVES

FORM I - IN ILM03.0

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN47

Lab Name: LAB PITTSBURGH Contract: 68-D0-0048

Lab Code: TPA Case No.: 22084 SAS No.: SDG No.: MCQN44

Matrix (soil/water): SOIL Lab Sample ID: MCQN47

Level (low/med): LOW Date Received: 12/22/94

% Solids: 72.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2630		*	P
7440-36-0	Antimony	5.1	B	N	P
7440-38-2	Arsenic	0.65	B		P
7440-39-3	Barium	21.7	B	*	P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.42	U		P
7440-70-2	Calcium	267	B	*	P
7440-47-3	Chromium	4.7			P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	4.2	B	N	P
7439-89-6	Iron	2570			P
7439-92-1	Lead	8.9		N*	P
7439-95-4	Magnesium	176	B		P
7439-96-5	Manganese	12.8			P
7439-97-6	Mercury	0.14	U	N	CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	187	B		P
7782-49-2	Selenium	0.72	U		P
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium	74.9	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	4.3	B		P
7440-66-6	Zinc	19.3			P
	Cyanide	3.5	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

ARTIFACTS: FREE WATER AND STONES

FORM I - IN ILM03.0

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN48

Lab Name: ITAS PITTSBURGH _____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN44

Matrix (soil/water): SOIL_ Lab Sample ID: MCQN48

Level (low/med): LOW__ Date Received: 12/22/94

% Solids: _81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3150		*	P
7440-36-0	Antimony	3.5	B	N	P
7440-38-2	Arsenic	0.82	B		P
7440-39-3	Barium	28.0	B	*	P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium	0.55	B		P
7440-70-2	Calcium	3260		*	P
7440-47-3	Chromium	5.3			P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	10.7		N	P
7439-89-6	Iron	2250			P
7439-92-1	Lead	58.6		N*	P
7439-95-4	Magnesium	1380			P
7439-96-5	Manganese	61.0			P
7439-97-6	Mercury	0.12	U	N	CV
7440-02-0	Nickel	6.5	B		P
7440-09-7	Potassium	372	B		P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	0.48	U		P
7440-23-5	Sodium	87.9	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	6.5	B		P
7440-66-6	Zinc	233			P
	Cyanide	3.1	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: BROWN____ Clarity After: _____ Artifacts: YES___

Comments:
ARTIFACTS: __ROOTS

U.S. EPA - CLP

ORIGINAL (Red)

INORGANICS ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN49

Lab Name: IAS_PITTSBURGH _____ Contract: 68-D1-0048

Lab Code: IPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN44

Matrix (soil/water): SOIL_ Lab Sample ID: MCQN49

Level (low/med): LOW__ Date Received: 12/22/94

% Solids: _77.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12700		*	P
7440-36-0	Antimony	3.1	U	N	P
7440-38-2	Arsenic	2.8			P
7440-39-3	Barium	36.7		*	P
7440-41-7	Beryllium	0.71	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	31200		*	P
7440-47-3	Chromium	80.7			P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	385		N	P
7439-89-6	Iron	11300			P
7439-92-1	Lead	219		N*	P
7439-95-4	Magnesium	15300			P
7439-96-5	Manganese	232			P
7439-97-6	Mercury	1.3		N	CV
7440-02-0	Nickel	12.1			P
7440-09-7	Potassium	1490			P
7782-49-2	Selenium	0.66	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	296	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	31.7			P
7440-66-6	Zinc	1260			P
	Cyanide	3.2	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: BROWN____ Clarity After: _____ Artifacts: YES___

Comments:

ARTIFACTS: ROOTS

FORM I - IN ILM03.0

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCGN50

Lab Name: IAS PITTSBURGH Contract: 68-D0-0048

Lab Code: IPH Case No.: 23084 SAS No.: SDG No.: MCGN44

Matrix (soil/water): SOIL Lab Sample ID: MCGN50

Level (low/med): LOW Date Received: 12/22/94

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4340		*	P
7440-36-0	Antimony	2.6	U	N	P
7440-38-2	Arsenic	[illegible]			P
7440-39-3	Barium	363		*	P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.32	U		P
7440-70-2	Calcium	6310		*	P
7440-47-3	Chromium	30.5			P
7440-48-4	Cobalt	3.8	B		P
7440-50-8	Copper	1930		N	P
7439-89-6	Iron	7130			P
7439-92-1	Lead	103		N*	P
7439-95-4	Magnesium	1530			P
7439-96-5	Manganese	101			P
7439-97-6	Mercury	1.2		N	CV
7440-02-0	Nickel	5.0	B		P
7440-09-7	Potassium	634	B		P
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.43	U		P
7440-23-5	Sodium	214	B		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	7.5	B		P
7440-66-6	Zinc	587			P
	Cyanide	2.7	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

ARTIFACTS: ROOTS

FORM I - IN ILM03.0

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN51

Lab Name: IHS Pittsburgh Contract: 68-D0-0048

Lab Code: IHPH Case No.: 23084 SAS No.: SDG No.: MCQN44

Matrix (soil/water): SOIL Lab Sample ID: MCQN51

Level (low/med): LOW Date Received: 12/22/94

% Solids: 79.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5070		*	P
7440-36-0	Antimony	3.1	U	N	P
7440-38-2	Arsenic	1.9	U		P
7440-39-3	Barium	138		*	P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.38	U		P
7440-70-2	Calcium	14000		*	P
7440-47-3	Chromium	11.6			P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	44.6		N	P
7439-89-6	Iron	7120			P
7439-92-1	Lead	194		N*	P
7439-95-4	Magnesium	4150			P
7439-96-5	Manganese	75.7			P
7439-97-6	Mercury	0.40		N	CV
7440-02-0	Nickel	13.1			P
7440-09-7	Potassium	481	B		P
7782-49-2	Selenium	0.65	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	222	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	8.3	B		P
7440-66-6	Zinc	249			P
	Cyanide	3.1	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
ARTIFACTS: ROOTS

FORM I - IN ILM03.0

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCQN52

Lab Name: [illegible] Contract: 68-D2-0048

Lab Code: [illegible] Case No.: 23084 SAS No.: _____ SDG No.: MCQN44

Matrix (Soil/Water): SOIL Lab Sample ID: MCQN52

Level (low/med): LOW Date Received: 12/22/94

% Solids: 90.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19900		*	P
7440-36-0	Antimony	4.1	B	N	P
7440-38-2	Arsenic	[illegible]	B		P
7440-39-3	Barium	191		*	P
7440-41-7	Beryllium	0.89	B		P
7440-43-9	Cadmium	0.32	U		P
7440-70-2	Calcium	8370		*	P
7440-47-3	Chromium	39.3			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	50.6		N	P
7439-89-6	Iron	26900			P
7439-92-1	Lead	185		N*	P
7439-95-4	Magnesium	3360			P
7439-96-5	Manganese	355			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	10.3			P
7440-09-7	Potassium	2670			P
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.43	U		P
7440-23-5	Sodium	1220			P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	26.8			P
7440-66-6	Zinc	219			P
	Cyanide	2.8	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: BROWN Clarity After: _____ Artifacts: YES

Comments:
ARTIFACTS: STONES

FORM I - IN ILM03.0

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCQN53

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: _____ SDG No.: MCQN44

Matrix (soil/water): SOIL

Lab Sample ID: MCQN53

Level (low/med): LOW

Date Received: 12/22/94

% Solids: 94.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25700		*	P
7440-36-0	Antimony	9.0	B	N	P
7440-38-2	Arsenic	1.5	B		P
7440-39-3	Barium	810		*	P
7440-41-7	Beryllium	3.9			P
7440-43-9	Cadmium	0.99	B		P
7440-70-2	Calcium	28100		*	P
7440-47-3	Chromium	166			P
7440-48-4	Cobalt	19.8			P
7440-50-8	Copper	831		N	P
7439-89-6	Iron	103000			P
7439-92-1	Lead	20.4		N*	P
7439-95-4	Magnesium	4630			P
7439-96-5	Manganese	454			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	40.8			P
7440-09-7	Potassium	5160			P
7782-49-2	Selenium	2.2			P
7440-22-4	Silver	0.41	U		P
7440-23-5	Sodium	6270			P
7440-28-0	Thallium	1.5	B		P
7440-62-2	Vanadium	98.0			P
7440-66-6	Zinc	360			P
	Cyanide	2.6	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: BROWN Clarity After: _____ Artifacts: YES

Comments:

ARTIFACTS: STONES

FORM I - IN ILM03.0

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MCGN54

Lab Name: IHS PITTSBURGH Contract: 68-D3-0048

Lab Code: IPH Case No.: 23084 SAS No.: SDG No.: MCGN44

Matrix (soil/water): SOIL Lab Sample ID: MCGN54

Level (low/med): LOW Date Received: 12/22/94

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3710		*	P
7440-36-0	Antimony	3.0	B		P
7440-38-2	Arsenic	1.3	B		P
7440-39-3	Barium	72.3		*	P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.71	B		P
7440-70-2	Calcium	2210		*	P
7440-47-3	Chromium	30.1			P
7440-48-4	Cobalt	7.2	B		P
7440-50-8	Copper	147		N	P
7439-89-6	Iron	21800			P
7439-92-1	Lead	21.2		N*	P
7439-95-4	Magnesium	4610			P
7439-96-5	Manganese	347			P
7439-97-6	Mercury	0.12	U	N	CV
7440-02-0	Nickel	15.7			P
7440-09-7	Potassium	2220			P
7782-49-2	Selenium	0.60	B		P
7440-22-4	Silver	0.45	U		P
7440-23-5	Sodium	285	B		P
7440-28-0	Thallium	0.94	U		P
7440-62-2	Vanadium	21.9			P
7440-66-6	Zinc	590			P
	Cyanide	2.9	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

ARTIFACTS: ROOTS

FORM I - IN ILM03.0

ORIGINAL (Red)

[illegible] - CLP

[illegible] ANALYSES [illegible]

[illegible] SAMPLE NO.

MCQN55

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: 23084 SAS No.: _____ SDG No.: MCQN44

Matrix (soil/water): SOIL Lab Sample ID: MCQN55

Level (low/med): LOW Date Received: 12/22/94

% Solids: 94.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	67400		*	P
7440-36-0	Antimony	2.5	U	*	P
7440-38-2	Arsenic	[illegible]	B		P
7440-39-3	Barium	739		*	P
7440-41-7	Beryllium	3.5			P
7440-43-9	Cadmium	0.81	B		P
7440-70-2	Calcium	25200		*	P
7440-47-3	Chromium	145			P
7440-48-4	Cobalt	16.4			P
7440-50-8	Copper	1010		N	P
7439-89-6	Iron	76100			P
7439-92-1	Lead	20.6		N*	P
7439-95-4	Magnesium	4410			P
7439-96-5	Manganese	304			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	33.3			P
7440-09-7	Potassium	5540			P
7782-49-2	Selenium	1.4			P
7440-22-4	Silver	0.41	U		P
7440-23-5	Sodium	5400			P
7440-28-0	Thallium	1.7	B		P
7440-62-2	Vanadium	88.8			P
7440-66-6	Zinc	338			P
	Cyanide	2.6	U		AS

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: BROWN Clarity After: _____ Artifacts: YES

Comments:
ARTIFACTS: ROOTS

FORM I - IN ILM03.0

ORIGINAL (Red)

APPENDIX B

SUPPORT DOCUMENTATION

ORIGINAL (Red)

MCQN40

ORIGINAL (Red)

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCGN40

AA CRDL Standard Source: FISHERRICCAM

ICP CRDL Standard Source: MALLINRICCAA

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic				20.0	20.27	101.4	21.18	105.9
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	7.60	126.7	7.23	120.5
Magnesium								
Manganese								
Mercury	0.2	0.28	140.0					
Nickel								
Potassium								
Selenium				10.0	9.34	93.4	10.26	102.6
Silver								
Sodium								
Thallium				20.0	19.35	96.8	22.66	113.3
Vanadium								
Zinc								

U.S. EPA - CLP

3
BLANKS

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCGN40

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	11.0	U	11.0	U	11.0	U	11.0	U	11.000	U	P
Antimony	12.2	U	12.2	U	12.2	U	12.2	U	12.200	U	P
Arsenic	2.3	U	2.3	U	2.3	U	2.3	U	2.300	U	P
Barium	0.5	B	1.1	B	0.8	B	0.8	B	0.850	B	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	P
Cadmium	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Calcium	6.3	U	6.3	U	6.3	U	6.3	U	11.470	B	P
Chromium	1.8	U	1.8	U	1.8	U	1.8	U	1.800	U	P
Cobalt	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P
Copper	1.4	U	1.4	U	1.4	U	1.4	U	1.400	U	P
Iron	1.5	U	1.5	U	1.5	U	1.5	U	5.130	B	P
Lead	1.4	U	1.4	U	1.4	U	1.4	U	1.400	U	P
Magnesium	11.1	U	11.1	U	11.1	U	11.4	B	11.390	B	P
Manganese	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	4.3	U	4.3	U	4.3	U	4.3	U	4.300	U	P
Potassium	381.0	U	381.0	U	381.0	U	381.0	U	381.000	U	P
Selenium	2.6	U	2.6	U	2.6	U	2.5	B	2.600	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	9.2	U	9.2	U	9.2	U	9.2	U	11.500	B	P
Thallium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium	1.4	U	1.4	U	1.4	U	1.4	U	1.400	U	P
Zinc	1.8	B	1.3	B	1.9	B	1.0	U	3.220	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	5.000	U	AS

FORM 1A - IN

ORIGINAL (Red)

U.S. EPA - CLP

3
BLANKS

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCGN40

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			12.5	B							P
Antimony			12.2	U							P
Arsenic											NR
Barium			0.8	B							P
Beryllium			0.1	U							P
Cadmium			1.5	U							P
Calcium			6.3	U							P
Chromium			1.8	U							P
Cobalt			1.9	U							P
Copper			1.4	U							P
Iron			1.5	U							P
Lead											NR
Magnesium			11.1	U							P
Manganese			0.4	U							P
Mercury			0.2	U							CV
Nickel			4.3	U							P
Potassium			381.0	U							P
Selenium											NR
Silver			2.0	U							P
Sodium			9.2	U							P
Thallium											NR
Vanadium			1.4	U							P
Zinc			1.3	B							P
Cyanide											NR

U.S. EPA - CLP

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Instrument Detection Limits (Quarterly)

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCWN40

ICP ID Number: TRACE_____ Date: 10/15/94

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	189.04		10	2.3	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	1.4	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.03		5	2.6	F
Silver			10		NR
Sodium			5000		NR
Thallium	190.86		10	4.0	F
Vanadium			50		NR
Zinc			20		NR

Comments:

ORIGINAL (Red)

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN40

ICP ID Number: JA61E_____ Date: 10/15/94

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	11.0	P
Antimony	206.84		60	12.2	P
Arsenic			10		NR
Barium	493.41		200	0.5	P
Beryllium	313.04		5	0.1	P
Cadmium	228.80		5	1.5	P
Calcium	317.93		5000	6.3	P
Chromium	267.72		10	1.8	P
Cobalt	228.62		50	1.9	P
Copper	324.75		25	1.4	P
Iron	259.94		100	1.5	P
Lead			3		NR
Magnesium	279.08		5000	11.1	P
Manganese	257.61		15	0.4	P
Mercury			0.2		NR
Nickel	231.60		40	4.3	P
Potassium	766.49		5000	351.0	P
Selenium			5		NR
Silver	328.07		10	2.0	P
Sodium	588.99		5000	9.2	P
Thallium			10		NR
Vanadium	292.40		50	1.4	P
Zinc	213.86		20	1.0	P

Comments:

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ITAS_PITTSBURGH___________ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _______ SDG No.:MCQN40

Instrument ID Number: TRACE_________ Method: P_

Start Date: 01/12/95 End Date: 01/12/95

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1322				X									X						X			X			
S	1.00	1326				X									X						X						
S	1.00	1330																									
ICV	1.00	1333				X															X						
ICV	1.00	1336													X									X			
ICB	1.00	1340				X									X						X			X			
ICSA	1.00	1344				X									X						X			X			
ICSAB	1.00	1347				X									X						X			X			
CRI	1.00	1351				X									X						X			X			
CCV	1.00	1354				X									X						X			X			
CCB	1.00	1358				X									X						X			X			
PBW	1.00	1412				X									X						X			X			
LCSW	1.00	1415				X															X						
LCSW	1.00	1419													X									X			
MCQN40	1.00	1422				X									X						X			X			
MCQN41	1.00	1426				X									X						X			X			
MCQN42	1.00	1430				X									X						X			X			
MCQN43	1.00	1433				X									X												
MCQN56	1.00	1437				X																					
MCQN35	1.00	1440				X																					
MCQN35D	1.00	1444				X									X						X			X			
CCV	1.00	1448				X									X						X			X			
CCB	1.00	1451				X									X						X			X			
MCQN35S	1.00	1455				X									X						X						
MCQN36	1.00	1458				X									X						X			X			
MCQN37	1.00	1502				X									X						X			X			
MCQN38	1.00	1506				X									X						X			X			
MCQN39	1.00	1509				X									X						X			X			
MCQN39L	5.00	1513				X									X						X			X			
ICSA	1.00	[illegible]				X									X									X			
ICSAB	1.00	1520				X									X												
CRI	1.00	1524				X									X						X						

ORIGINAL (Red)

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ANALYSIS RUN LOG

Lab Name: ITAS_PITTSBURGH__________ Contract: 68-D3-0046

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _______ SDG No.: MCUN40

Instrument ID Number: TRACE________ Method: P_

Start Date: 01/12/95 End Date: 01/12/95

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
V	1.00	1527				X									X						X			X			
B	1.00	1531				X									X						X			X			

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.:MCQN40

Instrument ID Number: JA61E_____ Method: P_

Start Date: 01/11/93 End Date: 01/11/93

EPA Sample No.	D/F	Time	% R	Analytes																				
				ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC
S0	1.00	0035		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X		X	X
S	1.00	0039																				X			
S	1.00	0042		X	X			X						X					X					X	
S	1.00	0045																							
S	1.00	0047								X															
S	1.00	0050				X		X	X		X	X			X	X			X						X
S	1.00	0052																						X	
ICV	1.00	0056			X																				
ICV	1.00	0059		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
ICB	1.00	0102		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
ICSA	1.00	0105		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
ICSAB	1.00	0108		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
CRI	1.00	0110			X			X	X		X	X	X	X				X		X			X		X
CCV	1.00	0113		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
CCB	1.00	0116		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
ZZZZZZ	1.00	0119																							
ZZZZZZ	1.00	0121																							
ICSA	1.00	0125		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
ICSAB	1.00	0128		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
CRI	1.00	0131			X			X	X		X	X	X	X				X		X			X		X
CCV	1.00	0133		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
CCB	1.00	0136		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
PBW	1.00	0143		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
LCSW	1.00	0146			X																				
LCSW	1.00	0149		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
MCQN40	1.00	0152		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
MCQN41	1.00	0155		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
MCQN42	1.00	0157		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
MCQN43	1.00	0200		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
MCQN56	1.00	0203		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
MCQN35	1.00	0206		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X
MCQN35D	1.00	0208		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X

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ANALYSIS RUN LOG

Lab Name: ITAS_PITTSBURGH__________ Contract: 68-D3-0046

Lab Code: ITPA__ Case No.: 23084_ SAS No.: ______ SDG No.:MCQN40

Instrument ID Number: JA61E________ Method: P_

Start Date: 01/11/95 End Date: 01/11/95

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
[illegible]	1.00	0211		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible] 3	1.00	0214		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN35S	1.00	0217		X	X		X	X	X		X	X	X	X			X		X			X			X	X	
MCQN36	1.00	0219		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN37	1.00	0222		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN38	1.00	0225		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN39	1.00	0228		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN39L	5.00	0230		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSA	1.00	0233		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	0236		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	0239			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	0242		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB 4	1.00	0244		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

ORIGINAL (Red)

MCQN44

U.S. EPA - CLP

CRDL STANDARD FOR AA AND ICP

Lab Name: ITAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: ITPA__ Case No.: 23084_ SAS No.: _____ SDG No.: MCQN44

AA CRDL Standard Source: FISHERRICCAM

ICP CRDL Standard Source: MALLINRICCAA

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic				20.0	20.30	101.5	19.81	99.0
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	7.67	127.8	7.07	117.8
Magnesium								
Manganese								
Mercury	0.2	0.22	110.0					
Nickel								
Potassium								
Selenium				10.0	11.35	113.5	8.74	87.4
Silver								
Sodium								
Thallium				20.0	24.31	121.6	25.09	125.4
Vanadium								
Zinc								

U.S. EPA - CLP

CRDL STANDARD FOR AA AND ICP

Lab Name: IAS PITTSBURGH Contract: 68-03-0048

Lab Code: IAPA Case No.: 23084 SAS No.: SDG No.: MCQN44

AA CRDL Standard Source: FISHERRICCAM

ICP CRDL Standard Source: MALLINRICCAA

Concentration Units: ug/L

Analyte	CRDL standard for AA True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum								
Antimony								
Arsenic				20.0			19.23	96.2
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0			5.85	97.5
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium				10.0			9.60	96.0
Silver								
Sodium								
Thallium				20.0			23.56	117.8
Vanadium								
Zinc								

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2B

CRDL STANDARD FOR AA AND ICP

ORIGINAL (Red)

Lab Name: CIAS_PITTSBURGH _____ Contract: 68-03-0048

Lab Code: ITPA __ Case No.: 23084 _ SAS No.: _____ SDG No.: MCQN44

AA CRDL Standard Source: _____

ICP CRDL Standard Source: MALLINRICCAA

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0			125.31	104.4
Arsenic								
Barium								
Beryllium				10.0			9.62	96.2
Cadmium				10.0			8.87	88.7
Calcium								
Chromium				20.0			19.23	96.2
Cobalt				100.0			105.49	105.5
Copper				50.0			50.55	101.1
Iron								
Lead								
Magnesium								
Manganese				30.0			29.44	98.1
Mercury								
Nickel				80.0			74.58	93.2
Potassium								
Selenium								
Silver				20.0			19.91	99.6
Sodium								
Thallium								
Vanadium				100.0			99.55	99.6
Zinc				40.0			40.99	102.5

ORIGINAL (Red)

[illegible]

3

BLANKS

Lab Name: ITAS PITTSBURGH Contract: 68-D3-0048

Lab Code: [illegible] Case No.: 23084 SAS No.: _____ SDG No.: MCQN44

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	11.0	U	11.0	U	11.0	U	11.0	U	2.200	U	P
Antimony	12.2	U	12.2	U	12.2	U	12.2	U	2.440	U	P
Arsenic	2.0	B	1.4	U	1.4	U	1.4	U	0.280	U	P
Barium	0.5	B	1.1	B	0.8	B	0.8	B	0.146	B	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.020	U	P
Cadmium	1.5	U	1.5	U	1.5	U	1.5	U	0.300	U	P
Calcium	6.3	U	6.3	U	6.3	U	6.3	U	4.084	B	P
Chromium	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Cobalt	1.9	U	1.9	U	1.9	U	1.9	U	0.380	U	P
Copper	1.4	U	1.4	U	1.4	U	1.4	U	0.280	U	P
Iron	1.5	U	1.5	U	1.5	U	1.5	U	0.824	B	P
Lead	0.9	U	0.9	U	0.9	U	0.9	U	0.180	B	P
Magnesium	11.1	U	11.1	U	11.1	U	11.4	B	2.220	U	P
Manganese	0.4	U	0.4	U	0.4	U	0.4	U	0.080	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	4.3	U	4.3	U	4.3	U	4.3	U	0.860	U	P
Potassium	381.0	U	381.0	U	381.0	U	381.0	U	76.200	U	P
Selenium	2.6	U	2.6	U	2.6	U	2.6	U	0.520	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Sodium	9.2	U	9.2	U	9.2	U	9.2	U	1.840	U	P
Thallium	4.2	U	4.2	U	4.2	U	4.2	U	0.840	U	P
Vanadium	1.4	U	1.4	U	1.4	U	1.4	U	0.280	U	P
Zinc	1.8	B	1.3	B	1.9	B	1.0	U	0.986	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	2.500	U	AS

ORIGINAL (Red)

U.S. EPA - CLP

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ILMNRS

Lab Name: ITAS PITTSBURGH Contract: 68-D3-0048

Lab Code: ITPA Case No.: 23064 SAS No.: _____ SDG No.: MCQN44

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			12.5	B	11.4	B	11.0	U			P
Antimony			12.2	U	12.2	U	12.2	U			P
Arsenic			1.4	U	1.8	B					P
Barium			0.8	B	0.8	B	0.5	B			P
Beryllium			0.1	U	0.1	B	0.1	B			P
Cadmium			1.5	U	1.5	U	1.5	U			P
Calcium			6.3	U	6.3	U	6.3	U			P
Chromium			1.8	U	1.8	U	1.8	U			P
Cobalt			1.9	U	1.9	U	1.9	U			P
Copper			1.4	U	1.4	U	1.4	U			P
Iron			1.5	U	1.5	U	1.5	U			P
Lead			0.9	U	0.9	U					P
Magnesium			11.1	U	11.1	U	11.1	U			P
Manganese			0.4	U	0.4	U	0.4	U			P
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel			4.3	U	4.3	U	4.3	U			P
Potassium			381.0	U	381.0	U	381.0	U			P
Selenium			2.6	U	2.6	U					P
Silver			2.0	U	2.0	U	2.0	U			P
Sodium			9.2	U	11.1	B	9.2	U			P
Thallium			4.2	U	4.6	B					P
Vanadium			1.4	U	1.4	U	1.4	U			P
Zinc			1.3	B	1.7	B	1.6	B			P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: CLAS_PITTSBURGH_____ Contract: 68-D3-0048

Lab Code: TPH__ Case No.: 23084 SAS No.: _____ SDG No.: MCQN44

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			11.0	U							P
Antimony			12.2	U							P
Arsenic											NR
Barium			0.8	B							P
Beryllium			0.1	B							P
Cadmium			1.5	U							P
Calcium			6.3	U							P
Chromium			1.8	U							P
Cobalt			1.9	U							P
Copper			1.4	U							P
Iron			1.5	U							P
Lead											NR
Magnesium			11.1	U							P
Manganese			0.4	U							P
Mercury											NR
Nickel			4.3	U							P
Potassium			381.0	U							P
Selenium											NR
Silver			2.0	U							P
Sodium			16.5	B							P
Thallium											NR
Vanadium			1.4	U							P
Zinc			1.5	B							P
Cyanide											NR

U.S. EPA - CLP

ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHES PITTSBURGH Contract: 68-D3-0048

Lab Code: CHPA Case No.: 23084 SAS No: _____ SDG No.: MCQN44

ICSA ID Number: TRACE _____ ICS Source: USEPA _____

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum								
Antimony								
Arsenic	0	0	3	0.0		3	0.9	
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0	4712	-10	4512.6	95.8	-10	4502.8	95.6
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	0	0	1	1.0		1	0.6	
Silver								
Sodium								
Thallium	0	0	8	6.2		8	4.8	
Vanadium								
Zinc								

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: 23084 SAS No: _____ SDG No.: MCQN44

ICP ID Number: TRACE _____ ICS Source: USEPA _____

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic	0	0				1	0.7	
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0	4712				-12	4351.4	92.3
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	0	0				0	1.0	
Silver								
Sodium								
Thallium	0	0				13	11.6	
Vanadium								
Zinc								

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: LIAS PITTSBURGH _____ Contract: 68-03-0048

Lab Code: LIP4 Case No.: 23084 SAS No: _____ SDG No.: MCQN44

ICP ID Number: JA61E _____ ICS Source: USEPA _____

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	514927	507757	518760	512384.8	100.9	519073	513332.2	101.1
Antimony	0	0	4	-5.8		7	16.0	
Arsenic								
Barium	0	499	16	491.0	98.4	16	492.0	98.6
Beryllium	0	488	0	444.7	91.1	0	451.5	92.5
Cadmium	0	928	-2	947.0	102.0	0	954.9	102.9
Calcium	529351	525385	505183	497390.6	94.7	509641	504781.9	96.1
Chromium	14	464	11	448.0	96.6	12	451.3	97.3
Cobalt	0	475	11	491.4	103.5	11	498.2	104.9
Copper	0	488	3	505.3	103.5	3	507.6	104.0
Iron	190348	187957	185237	181016.2	96.3	185171	181890.7	96.8
Lead								
Magnesium	543610	533685	528402	519576.7	97.4	528448	521391.8	97.7
Manganese	36	502	43	499.2	99.4	44	503.1	100.2
Mercury								
Nickel	0	897	0	858.3	95.7	-7	868.9	96.9
Potassium	0	0	-31	306.2		12	18.4	
Selenium								
Silver	0	899	-1	922.8	102.6	-2	926.0	103.0
Sodium	0	0	1176	1173.0		1186	1180.7	
Thallium								
Vanadium	0	473	1	457.6	96.7	0	462.2	97.7
Zinc	71	1001	72	1004.9	100.4	72	1010.8	101.0

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SOIL SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MCQN51S

Lab Name: CAS PITTSBURGH Contract: 68-D3-0046

Lab Code: CPA Case No.: 23084 SAS No.: SDG No.: MCQN44

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 79.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	47.2620		3.0730	U	125.94	37.5	N	P
Arsenic	75-125	489.5320		1.9293	B	503.78	98.9		P
Barium	75-125	592.5592		138.3350		503.78	90.2		P
Beryllium	75-125	12.3023		0.2443	B	12.59	95.8		P
Cadmium	75-125	12.5139		0.3778	U	12.59	99.4		P
Calcium									NR
Chromium	75-125	61.6776		11.5869		50.38	99.4		P
Cobalt	75-125	127.4131		2.3728	B	125.94	99.3		P
Copper	75-125	135.0630		44.6247		62.97	143.6	N	P
Iron									NR
Lead	75-125	224.7330		193.5290		125.94	24.8	N	P
Magnesium									NR
Manganese	75-125	217.2720		75.7406		125.94	112.4		P
Mercury	75-125	0.8149		0.4018		0.63	65.6	N	CV
Nickel	75-125	136.2418		13.1486		125.94	97.7		P
Potassium									NR
Selenium	75-125	488.1914		0.6049	U	503.78	96.9		P
Silver	75-125	11.2292		0.5038	U	12.59	89.2		P
Sodium									NR
Thallium	75-125	487.9144		1.0579	U	503.78	96.9		P
Vanadium	75-125	132.6423		8.3149	B	125.94	98.7		P
Zinc	75-125	372.0730		248.5945		125.94	98.0		P
Cyanide	75-125	28.1395		3.1486	U	31.49	89.4		AS

Comments:

FORM V (Part 1) - IN ILM03.0

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POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MCQN51A

Lab Name: [illegible] Contract: 68-03-0048

Lab Code: ITPA Case No.: 23084 SAS No.: SDG No.: MCQN44

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Aluminum									NR
Antimony		113.36		12.20	U	120.0	94.5		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper		516.36		177.16		354.0	95.8		P
Iron									NR
Lead		2224.40		768.31		1540.0	94.6		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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DUPLICATES

EPA SAMPLE NO.

MCQN51D

Lab Name: CHAS_PITTSBURGH Contract: 68-D0-0048

Lab Code: CHPA Case No.: 23084 SAS No.: EDD No.: MCQN44

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 79.4 % Solids for Duplicate: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6067.06801		7850.05541		23.6	*	P
Antimony		3.07301	U	3.07301	U			P
Arsenic		1.92931	B	1.23681	B	43.8		P
Barium	50.4	138.33501		76.51131		57.6	*	P
Beryllium		0.24431	B	0.25441	B	4.1		P
Cadmium		0.37781	U	0.60451	B	200.0		P
Calcium		14002.75061		10002.00501		33.3	*	P
Chromium	2.5	11.58691		11.82371		2.0		P
Cobalt		2.37281	B	2.54161	B	6.9		P
Copper		44.62471		45.51891		2.0		P
Iron		7117.83121		8324.20151		15.9		P
Lead		193.52901		106.83121		57.7	*	P
Magnesium	1259.4	4145.92441		4198.20911		1.3		P
Manganese		73.74061		79.07051		4.3		P
Mercury	0.1	0.40181		0.49431		20.6		CV
Nickel	10.1	13.14861		13.74311		4.4		P
Potassium		481.27711	B	616.50631	B	24.6		P
Selenium		0.65491	U	0.65491	U			P
Silver		0.50381	U	0.50381	U			P
Sodium		221.67761	B	202.32751	B	9.1		P
Thallium		1.05791	U	1.05791	U			P
Vanadium		8.31491	B	9.17381	B	9.8		P
Zinc		248.59451		231.72291		7.0		P
Cyanide		3.14861	U	3.14861	U			AS

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Instrument Detection Limits (Quarterly)

Lab Name: ITAS PITTSBURGH Contract: 68-C3-0048

Lab Code: ITPA Case No.: 23084 SAS No.: _____ SDG No.: MCQN44

CLP ID Number: TRACE _____ Date: 01/10/95

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	189.04		10	1.4	P
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	0.9	P
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.03		5	2.6	P
Silver			10		NR
Sodium			5000		NR
Thallium	190.86		10	4.2	P
Vanadium			50		NR
Zinc			20		NR

Comments:

ORIGINAL (Red)

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1D

Instrument Detection Limits (Quarterly)

Lab Name: IAS PITTSBURGH Contract: 68-D3-0048

Lab Code: IIPA Case No.: 23084 SAS No.: SDG No.: MCQN44

ICP ID Number: JH61E Date: 10/15/94

Flame AA ID Number :

Furnace AA ID Number :

Analyte	wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	11.0	P
Antimony	206.84		60	12.2	P
Arsenic			10		NR
Barium	493.41		200	0.5	P
Beryllium	313.04		5	0.1	P
Cadmium	228.80		5	1.5	P
Calcium	317.93		5000	6.3	P
Chromium	267.72		10	1.8	P
Cobalt	228.62		50	1.9	P
Copper	324.75		25	1.4	P
Iron	259.94		100	1.5	P
Lead			3		NR
Magnesium	279.08		5000	11.1	P
Manganese	257.61		15	0.4	P
Mercury			0.2		NR
Nickel	231.60		40	4.3	P
Potassium	766.49		5000	381.0	P
Selenium			5		NR
Silver	328.07		10	2.0	P
Sodium	588.99		5000	9.2	P
Thallium			10		NR
Vanadium	292.40		50	1.4	P
Zinc	213.86		20	1.0	P

Comments:

FORM X - IN ILM03.0

ORIGINAL (Red)

[illegible]

ANALYSIS [illegible]

Lab Name: [illegible]SBURGH Contract: 68-[illegible]-0048

[illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: MCQN44

[illegible] Number: [illegible] Method: [illegible]

Start Date: [illegible] End Date: [illegible]

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
[illegible]	1.00	0555				X									X						X			X			
[illegible]	1.00	0600				X									X						X			X			
[illegible]	1.00	0603																									
[illegible]	1.00	0606				X															X						
ICV	1.00	0610													X									X			
ICB	1.00	0614				X									X						X			X			
ICSA	1.00	0617				X									X						X			X			
ICSAB	1.00	0621				X									X						X			X			
CRI	1.00	0625				X									X						X			X			
CCV	1.00	0628				X									X						X			X			
CCB 1	1.00	0632				X									X						X			X			
PBS	1.00	0635				X									X						X			X			
LCSS	1.00	0639				X									X						X			X			
MCQN44	1.00	0644				X									X						X			X			
MCQN45	1.00	0647				X									X						X			X			
MCQN46	1.00	0651				X									X						X			X			
MCQN47	1.00	0654				X									X						X			X			
MCQN48	1.00	0658				X									X						X			X			
MCQN49	1.00	0702				X									X						X			X			
MCQN50	1.00	0705				X									X						X			X			
MCQN51	1.00	0709				X									X						X			X			
CCV	1.00	0712				X									X						X			X			
CCB 2	1.00	0716				X									X						X			X			
MCQN51D	1.00	0720				X									X						X			X			
MCQN51S	1.00	0723				X									X						X			X			
MCQN52	1.00	0727				X									X						X						
MCQN53	1.00	0730				X									X						X			X			
MCQN54	1.00	0734				X									X						X			X			
MCQN54L	5.00	0738				X									X						X			X			
MCQN55	1.00	0741				X									X						X			X			
MCQN51A	1.00	0747													X												
MCQN52	1.00	0751																						X			

ANALYSIS RUN LOG

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: [illegible] SDG No.: MCQN44

Instrument ID Number: [illegible] Method: [illegible]

Start Date: 01/18/95 End Date: 01/18/95

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	0754				X									X						X			X			
CCB	1.00	[illegible]				X									X						X			X			
[illegible]	1.00	[illegible]				X									X						X			X			
[illegible]	1.00	0805				X									X						X			X			
CRI	1.00	0809				X									X						X			X			
CCV	1.00	0812				X									X						X			X			
CCB	1.00	0816				X									X						X			X			
MCQN53	2.00	0821																									
MCQN55	2.00	0825																									
ICSA	1.00	0828				X									X						X			X			
ICSAB	1.00	0832				X									X						X			X			
CRI	1.00	0835				X									X						X			X			
CCV	1.00	0839				X									X						X			X			
CCB	1.00	0843				X									X						X			X			

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ANALYSIS RUN LOG

Lab Name: CHAS PITTSBURGH ______ Contract: 68-D5-0048

Lab Code: ___ Case No.: 22084_ SAS No.: ______ SDG No.: MCQN44

Instrument ID Number: JA61E ________ Method: P_

Start Date: 01/11/95 End Date: 01/11/95

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0035		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	0039																				X					
S	1.00	0042		X	X			X						X					X				X				
S	1.00	0045																									
S	1.00	0047									X																
S	1.00	0050					X		X	X		X	X			X	X			X						X	
S	1.00	0052																							X		
ICV	1.00	0056			X																						
ICV	1.00	0059		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICB	1.00	0102		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSA	1.00	0105		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	0108		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	0110			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	0113		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB 1	1.00	0116		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	0119																									
ZZZZZZ	1.00	0121																									
CSA	1.00	0125																									
CSAB	1.00	0128																									
CRI	1.00	0131																									
CCV	1.00	0133		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB 2	1.00	0136		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	0143																									
ZZZZZZ	1.00	0146																									
ZZZZZZ	1.00	0149																									
ZZZZZZ	1.00	0152																									
ZZZZZZ	1.00	0155																									
ZZZZZZ	1.00	0157																									
ZZZZZZ	1.00	0200																									
ZZZZZZ	1.00	0203																									
ZZZZZZ	1.00	0206																									
ZZZZZZ	1.00	0208																									

FORM XIV - IN ILM03.0

ORIGINAL (Red)

ORIGINAL (Red)

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ANALYSIS RUN LOG

Lab Name: AS_PITTSBURGH | Contract: 68-D5-0048

Lab Code: ITPH | Case No.: 23084 | SAS No.: | SDG No.: MCQN44

Instrument ID Number: JA61E | Method: P

Start Date: 01/11/95 | End Date: 01/11/95

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	0211		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB 3	1.00	0214		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	0217																									
ZZZZZZ	1.00	0219																									
ZZZZZZ	1.00	0222																									
ZZZZZZ	1.00	0225																									
ZZZZZZ	1.00	0228																									
ZZZZZZ	1.00	0230																									
ICSA	1.00	0233		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	0236		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	0239			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	0242		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB 4	1.00	0244		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	0250		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	5.00	0253								X																	
LCSS	1.00	0256		X	X		X	X	X		X	X	X	X		X	X		X	X		X	X		X	X	
MCQN44	1.00	0300		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN45	1.00	0302		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN46	1.00	0305		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN47	1.00	0308		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN48	1.00	0311		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN49	1.00	0313		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN50	1.00	0316		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	0319		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB 5	1.00	0322		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN51	1.00	0324		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN51D	1.00	0327		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN51S	1.00	0330			X		X	X	X		X	X	X				X		X			X			X	X	
MCQN52	1.00	0333		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN53	1.00	0336		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
MCQN54	1.00	0340		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MCQN54L	5.00	0343		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

FORM XIV - IN ILM03.0

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: LAS PITTSBURGH Contract: 68-D4-0046

Lab Code: LPA Case No.: 22084 SAS No.: SDG No.: MCQN44

Instrument ID Number: JA61E Method: P

Start Date: 01/11/95 End Date: 01/11/95

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MCQN22	1.00	0346		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
MCQN21A	1.00	0353			X								X														
MCQN33	5.00	0355												X													
CCV	1.00	0358		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
CCB6	1.00	0401		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
MCQN22	2.00	0404												X													
ICSA	1.00	0406		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
ICSAB	1.00	0409		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
CRI	1.00	0412			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	0415		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	
CCB7	1.00	0418		X	X		X	X	X	X	X	X	X			X	X		X	X		X	X		X	X	

FORM XIV - IN ILM03.0

INTERNATIONAL TECHNOLOGY CORPORATION

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January 25, 1995

USEPA National Enforcement
Investigations Center (NEIC)
Denver Federal Center
Building 53
P. O. Box 25227
Denver, CO 80225

Attn: CLP Audit Program

Please be aware, the CSF for Case No. 23084, SDG Nos. MCQN40 and MCQN44, was sent to Annette Lage, Region 3, on January 25, 1995 via Federal Express overnight shipment.

Very truly yours,

David A. Dunlap
Project Manager

DAD:ds

cc: USEPA Contract Laboratory Program - SMO

ITAS PT/01-95/0179/NEIC2308.4

Regional Office
5103 Old William Penn Highway • Export, Pennsylvania 15632 • 412-731-8806

IT Corporation is a wholly owned subsidiary of International Technology Corporation

January 25, 1995

INTERNATIONAL TECHNOLOGY CORPORATION

0CCC1

CASE NARRATIVE

Laboratory Name:	ITAS Pittsburgh, Pennsylvania
Laboratory Code:	ITPA
Project Name:	USEPA/CLP
Inorganic SOW:	ILM03.0
Project Number:	662004
Work Order Number:	Q412254
Contract Number:	68-D3-0048
Case Number:	23084
SDG Number:	MCQN44
Sample Number:	

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MCQN44	MCQN47	MCQN50	MCQN53
MCQN45	MCQN48	MCQN51	MCQN54
MCQN46	MCQN49	MCQN52	MCQN55

Shipment

Twelve soil samples were received at the ITAS Pittsburgh Laboratory on December 22, 1994, for metals and cyanide analysis.

The tag number for sample MCQN51 was incorrectly listed on the TR. The actual tag number was 3-1248702.

Metals

A duplicate digestion and a matrix spike were performed on sample MCQN51. A serial dilution was performed on sample MCQN54.

The matrix spike recovery exceeded the 75 to 125 percent control limit for antimony, copper, lead, and mercury. All associated results were flagged with a "N" qualifier.

The duplicate digestion RPD exceeded the 20 percent control limit for aluminum, barium, calcium, and lead. All associated results were flagged with a "*" qualifier.

Samples MCQN53 and MCQN55 were over the linear range for iron, and required dilutions.

Cyanide Analysis

A duplicate and matrix spike were performed on sample MCQN51.

January 25, 1995

INTERNATIONAL TECHNOLOGY CORPORATION

ORIGINAL (Red)

00001

CASE NARRATIVE

Laboratory Name:	ITAS Pittsburgh, Pennsylvania
Laboratory Code:	ITPA
Project Name:	USEPA/CLP
Inorganic SOW:	ILM03.0
Project Number:	662004
Work Order Number:	Q412255/265
Contract Number:	68-D3-0048
Case Number:	23084
SDG Number:	MCQN40

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Sample Number:

MCQN40	MCQN43	MCQN37	MCQN39
MCQN41	MCQN35	MCQN38	
MCQN42	MCQN36		

Shipment

Ten water samples were received at the ITAS Pittsburgh Laboratory on December 22 and 23, 1994, for metals and cyanide analysis.

Metals

A duplicate digestion and a matrix spike were performed on sample MCQN35. A serial dilution was performed on sample MCQN39.

Cyanide Analysis

A duplicate and matrix spike were performed on sample MCQN35.

PAGE 4 OF 4

EPA SAMPLE SHIPPING LOG

MD|SI

(1) (REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: Chesapeake Shipbuilding ; EPA PROJ. OFFICER: Michael Guarana
RAS NO. 23084 ; SAS NO. — ; TASK NO. —
PROJECT SITE LEADER: Chris Pajak ; PHONE NO. (410) 631-3493
PROJECT SAMPLE COORDINATOR: Latife H. Leraas ; PHONE NO. (410) 631-3465

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC. (LOW/ MED./ HIGH)	SAMPLE PHASE (AQ/ SOL.)	TYPE OF REQUEST (ORG. DIG. OR INOR) SAS	EPA SAMPLE NO.	ORGANICS OR INORGANICS: LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDD	METALS	CN	SAS REQUEST (DETAILS REQUIRED) (10): LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIPPED	DATA REC'D.
(2)	(3)	(4)	(5)	(6)	(7)	(8)	←			(9)		→	(11)	(12)	(13)	
	Low	Sol	INOR	MCQN54	ITPA	12/21/91	X	X	X	X	✓	✓				
Dup of MCQN53	↓	Sol	↓	MCQN55			X	X	X	X	✓	✓	Rec'd 1/26/92			
BLANK	↓	AQ	↓	MCQN56			X	X	X	X						
							~~X~~	~~X~~	~~X~~	~~X~~						

JAN 29 RECEIVED

EPA SAMPLE SHIPPING LOG

MD/ST

(1) (REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: Chesapeake Shipbuilding ; EPA PROJ. OFFICER: Michael Guarana
RAS NO. 23084 ; SAS NO. — ; TASK NO. —
PROJECT SITE LEADER: Chris Pajak ; PHONE NO. (410) 631-3493
PROJECT SAMPLE COORDINATOR: Latife H. Leraas ; PHONE NO. (410) 631-3465

SAS REQUEST (DETAILS REQUIRED) (10)

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC. (LOW/MED./HIGH)	SAMPLE PHASE (AQ/SOL.)	TYPE OF REQUEST (ORG. OR INORG. SAS)	EPA SAMPLE NO.	ORGANICS OR INORGANICS: LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDD	METALS	CN	SAS REQUEST (LAB NAME)	SAS REQUEST (ITEMIZE)	DATE SHIPPED	DATA REC'D.
(12)	(13)	(14)	(15)	(16)	(17)	(18)	←			(19)		→	(11)	(12)	(14)	
MATRIX SPIKE	LOW	AQ	INOR	MCQN 35	ITPA	12/22/94	X	X	X	X						
				MCQN 36			X	X	X	X						
				MCQN 37			X	X	X	X						
				MCQN 38			X	X	X	X						
Dup of MCQN 36				MCQN 39			X	X	X	X						
				MCQN 40		12-21-94	X	X	X	X						
				MCQN 41			X	X	X	X						
				MCQN 42			X	X	X	X						
				MCQN 43			X	X	X	X						
		Sol.		MCQN 44			X	X	X	X	✓	✓				
				MCQN 45			X	X	X	X	✓	✓				
				MCQN 46			X	X	X	X	✓	✓				
				MCQN 47			X	X	X	X	✓	✓				
				MCQN 48			X	X	X	X	✓	✓				
				MCQN 49			X	X	X	X	✓	✓				
				MCQN 50			X	X	X	X	✓	✓				
MATRIX SPIKE				MCQN 51			X	X	X	X	✓	✓				
				MCQN 52			X	X	X	X	✓	✓				
				MCQN 53			X	X	X	X	✓	✓				

JAN 1995 RECEIVED

Rec'd 1/24 MCL

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No. (if applicable): —

Case No.: 23084

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO_3
   3. NaOH
   4. H_2SO_4
   5. $K_2CR_2O_7$
   6. Ice only
   7. Other (Specify)
   N. Not preserved

3. Region No.: III

Sampling Co.: MDE/ERRP

Sampler (Name): Chris Pajak

Sampler Signature:

4. Type of Activity: Lead: SF, PRP, ST, FED; Pre-Remedial: PA, SSI, LSI; Remedial: RIFS, RD, RA, O&M, NPLD; Removal: CLEM, REMA, REM, OIL, UST

5. Date Shipped:

Carrier: Fed Ex

Airbill Number: 202 569 847 1

6. Ship To: IT Analytical Services-Export
5103 Old William Penn Hwy
Export PA 15632
ATTN: Sample Custodian

7. Date Received -- Received by: 12-23-94 [illegible]

Laboratory Contract Number: 68-D3-0048

Unit Price: 104.00

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # from Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E - RAS Analysis: Metals Total	Metals Dissolved	Cyanide	Low Conc. only: Nitrate/ Nitrite	Fluoride	High only: pH	Conductivity	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Sample Condition on Receipt	L High Conc. Phases (Check below): Solids	Water - Mis Liq.	Non Water - Mis Liq.
~~MCQN35~~	~~2~~	~~L~~	~~G~~	~~2,3~~	~~X~~		~~X~~					~~3-1249876 AND 3-1249877~~	~~Res-1~~			~~CPS35~~				
MCQN36	2	L	G	2,3	X		X					3-1249870 AND 3-1249871	Res-2	12/22/94 1000	KW	CPS36	OK			
MCQN37	2	L	G	2,3	X		X					3-1249872 AND 3-1249873	Res-3	12/22/94 1200	PMK	CPS37				
MCQN38	2	L	G	2,3	X		X					3-1249874 AND 3-1249875	Res-4	12/22/94 1220	KW	CPS38				
MCQN39	2	L	G	2,3	X		X					3-1249876 AND 3-1249877	Res-5	12/22/94 1000	KW	CPS39				
MCQN35	2	L	G	2,3	X		X					3-1249866 THRU 3-1249869	Res-1	12/22/94 1120	PMK	CPS35				

LHL 12/27/94

Shipment for Case complete? (Y/N): Y

Page 1 of ___

Sample used for a spike and/or duplicate: Do QC on MCQN35

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	12/22/94 1330				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[illegible]	12-23-94 0945		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No. (if applicable): —

Case No.: 23081

1. Sample Description (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (Specify) N. Not preserved

3. Region No.: III

Sampling Co.: MDE/ERRP

5. Date Shipped: 12/21/94

Carrier: Fed Ex

7. Date Received -- Received by: 12.22.94 [signature]

Sampler (Name): Chris Pajak

Airbill Number: 2023698456

Laboratory Contract Number: 68-D3-0048

Unit Price: 104.00

Sampler Signature: [signature]

6. Ship To: IT Analytical Services - Export
5103 Old William Penn Hwy
Export PA 15632
ATTN: Sample Custodian

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

4. Type of Activity: Lead: SF, PRP, ST, FED; Pre-Remedial: PA, SSI, LSI; Remedial: RIFS, RD, RA, O&M, NPLD; Removal: CLEM, REMA, REM, OIL, UST

CLP Sample Numbers (from labels)	A Enter # from Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E - RAS Analysis: Metals Total	Metals Dissolved	Cyanide	Low Conc only: Nitrate/Nitrite	Low Conc only: Fluoride	High only: pH	High only: Conductivity	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Sample Condition on Receipt	L High Conc. Phases (Check below): Solids	Water - Mill Lig.	Non Water Mill
MCQN50	5	L	G	6	X		X					3-1249891	S-3	12/21/94 1000	[illegible]	CPS 50	OK			
MCQN51	5	L	G	6	X		X					3-1249892	S-4	12/21/94 1020	[illegible]	CPS 51				
MCQN52	5	L	G	6	X		X					3-1249893	S-5	12/21/94 0945	[illegible]	CPS 52				
MCQN53	5	L	G	6	X		X					3-1249895	S-6	12/21/94 1045	[illegible]	CPS 53				
MCQN54	5	L	G	6	X		X					3-1249896	S-7	12/21/94 1050	[illegible]	CPS 54				
MCQN55	5	L	G	6	X		X					3-1249897	S-8	12/21/94 1045	[illegible]	CPS 55				
MCQN56	4	L	G	2,3	X		X					3-1249898 AND 3-1249899	B-1	12/21/94 0930	LHL	CPS 56				
MCQN57	4	L	G	2,3	X		X					3-1249900 AND 3-1249898	RB-1			CPS 57				

DATE SIGNED CASE

ORIGINAL IS FILED IN

Shipment for Case complete? (Y/N): N

Page 1 of 2: 2

Sample used for a spike and/or duplicate: Do QC on MCQN51

Additional Sampler Signatures: [signature]

Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	12/24/94 1430				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[signature]	12.22.94 0930	Bottle has Tag # 3-1248702 Sample MCQN51	

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-1 (Rev. 5-81) Replaces EPA Form (2075-6), previous edition which may be used

DISTRIBUTION: [illegible] Copy [illegible] Lab [illegible] for Return to Reg [illegible] Yellow - Lab

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No. (if applicable): N/A

Case No.: 23084

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaOH
   4. H_2SO_4
   5. $K_2CR_2O_7$
   6. Ice only
   7. Other (Specify)
   N. Not preserved

3. Region No.: III

Sampling Co.: MDE/ERRP

5. Date Shipped: 12/21/94

Carrier: FedEx

7. Date Received -- Received by: 12-22-94 [illegible]

Sampler (Name): Chris Pajak

Airbill Number: 2023698456

Laboratory Contract Number: 68-D3-0048

Unit Price: 104.00

Sampler Signature: [illegible]

6. Ship To: IT Analytical Services-Export, 5103 old William Penn Hwy, Export PA 15632, ATTN: Sample Custodian

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

4. Type of Activity: Lead (SF, PRP, ST, FED); Pre-Remedial (PA, SSI, LSI); Remedial (RIFS, RD, RA, O&M, NPLD); Removal (CLEM, REMA, REM, OIL, UST)

CLP Sample Numbers (from labels)	A Enter # from Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E - RAS Analysis: Metals Total	Metals Dissolved	Cyanide	Low Conc. only: Nitrate/Nitrite	Fluoride	High only: pH	Conductivity	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Sample Condition on Receipt	L High Conc. Phases (Check below): Solids	Water - Miscible Liq.	Non Water - Miscible Liq.
MCQN40	1	L	G	2,3	X		X					3-1249878 AND 3-1249894	SW-1	12-21-94/0920	PWS	CPS40	OK			
MCQN41	1	L	G	2,3	X		X					3-1249879 AND 3-1249880	SW-2	12-21-94 1110	PWS	CPS41				
MCQN42	1	L	G	2,3	X		X					3-1249881 AND 3-1249882	SW-3	12-21-94 1030	PWS	CPS42				
MCQN43	1	L	G	2,3	X		X					3-1249883 AND 3-1249884	SW-4	12-21-94 1135	PWS	CPS43				
MCQN44	5	L	G	6	X		X					3-1249885	Sed-1	12-21-94/0920	PWS	CPS44				
MCQN45	5	L	G	6	X		X					3-1249886	Sed-2	12-21-94 1110	PWS	CPS45				
MCQN46	5	L	G	6	X		X					3-1249887	Sed-3	12-21-94 1020	PWS	CPS46				
MCQN47	5	L	G	6	X		X					3-1249888	Sed-4	12-21-94 1135	PWS	CPS47				
MCQN48	5	L	G	6	X		X					3-1249889	S-1	12/21/94 [illegible]	PW	CPS48				
MCQN49	5	L	G	6	X		X					3-1249890	S-2	12/21/94 1005	PWS	CPS49				

Shipment for Case complete? (Y/N): N

Page 1 of 2

Sample used for a spike and/or duplicate: ~~Do QC on MCQN48~~ LHL

Additional Sampler Signatures: [illegible] Smith

Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	12/21/94 1430				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		[illegible]	12-22-94 0930		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-1 (Rev. 5-81) Replaces EPA Form (2075-6), previous edition which may be used

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III
CENTRAL REGIONAL LABORATORY
201 DEFENSE HIGHWAY
SUITE 200
ANNAPOLIS, MARYLAND 21401

QUALITY
ASSURANCE
BRANCH

DATE : March 3, 1995

SUBJECT: Region III Data QA Review

FROM : Cynthia E. Caporale C. Caporale
Region III ESAT RPO (3ES30)

TO : Latife Leraas
State of Maryland

Attached is the organic data validation report for the Cheaspeake Shipbuiling Site (Case 23084) completed by the Region III Environmental Services Assistance Team (ESAT) contractor under the direction of Region III ESD.

If you have any questions regarding this review, please call me at (410) 573-6832.

Attachment

cc: Mike Guiranna, RPO, w/o attachment (3HW73)

TID File:03950213

CERCLA

MAR 8 1995

Projects Division

Printed on Recycled Paper

Lockheed
Environmental Systems

Environmental Services Assistance Teams
Region 3
1419 Forest Drive, Suite 104
Annapolis, Maryland 21403

Phone: (410) 268-7705
Fax: (410) 268-8472

DATE: February 23, 1995

SUBJECT: Organic M2-Level Data Validation for Case 23084
Site: Chesapeake Shipbuilding.

FROM: Byron L. Munro BM
Organic Data Reviewer

Mahboobeh Mecanic MM
Senior Oversight Chemist

TO: Cynthia E. Caporale
ESAT Regional Project Officer

THRU: Dale S. Boshart DM
ESAT Team Manager

OVERVIEW

Case 23084 consisted of eleven (11) aqueous and twelve (12) soil samples submitted to Ceimic Corporation (CEIMIC) Laboratory for volatile, semivolatile and pesticide/PCB analyses. The case includes one (1) field blank, one (1) trip blank and two (2) field duplicate pairs. The trip blank was analyzed for volatiles only. The samples were analyzed as a Contract Laboratory Program (CLP) Routine Analytical Service (RAS).

SUMMARY

All samples were successfully analyzed for all target compounds. All instruments and method sensitivities were according to the Contract Laboratory Program (CLP) Routine Analytical Services (RAS) protocol.

MINOR PROBLEMS

- Several volatile and semivolatile compounds failed precision criteria (%RSD and/or %D) in the initial and/or continuing calibrations. The positive results were qualified "J", except when superseded by the "B"; and the quantitation limits for those compounds that exceeded the 50% RSD were qualified "UJ" on the Form Is. See Forms VI & VII VOA and Forms VI & VII SV - I & II in Appendix D.

- The initial volatile analyses of soil sample CPS48 had the area of internal standard IS3 outside the QC limit. Sample CPS49 had all three (3) internal standard areas outside of the lower QC limits. The samples were reanalyzed. Sample CPS48 had similar results and sample CPS49 had the areas of IS2 and IS3 outside the QC limits. The data from the reanalyses were selected. The positive results were qualified "J", unless superseded by the "B" qualifier and quantitation limits were qualified "UJ" for compounds associated with these internal standards. See Form VIII VOA in Appendix D and Form Is in Appendix C.

- The semivolatile extraction of soil sample CPS50 was performed twenty-six (26) days after the date of sample collection. The technical holding time of seven (7) days for aqueous samples has been exceeded by nineteen (19) days. The aqueous sample holding time was applied. The positive results were qualified "J", unless superseded by the "B" qualifier and the quantitation limits were qualified "UJ" on the Forms I. The contractual holding time of ten (10) days from the validated time of sample receipt (VTSR) was also exceeded by fifteen (15) days.

- In the pesticide/PCB analyses, soil sample CPS44 had low recoveries for surrogate tetrachloro-m-xylene (TCX) on both columns, the quantitation limits were qualified "UJ" on the Form Is. Samples CPS49 and CPS52 had three (3) recoveries for surrogates decachlorobiphenyl (DCB) and/or TCX below the QC limits. The quantitation limits for these samples were qualified "UL" on the Form Is. See Form II Pest-2 in Appendix D.

- The "P" qualifier used on the pesticide/PCB Forms Is denotes a percent difference (%D) greater than twenty-five percent (>25%) between the reported results on the two columns used for analyses. These results were qualified "J" on the Form Is. See Form 1 Pest in Appendix B and Form X in Appendix D.

NOTES

- The maximum concentrations of all compounds found in the analyses of the field, trip and laboratory method blanks are listed below. Samples with concentrations of these common laboratory contaminants less than ten times (<10X) the blank concentration or with concentrations of other contaminants less than five times (<5X) the blank concentration have been qualified "B" on the Form Is.

Compound	Concentration
methylene chloride *	4.0 J ug/L
acetone *	14.0 J ug/L
2-hexanone	6.0 J ug/Kg
2-butanone *	2.0 J ug/Kg

ORIGINAL (Red)

Compound	Concentration
butylbenzylphthalate *	3.0 J ug/L
benzo(a)anthracene	2.0 J ug/L
chrysene	2.0 J ug/L
bis(2-ethylhexyl)phthalate *	5.0 J ug/L
benzo(b)fluoranthene	2.0 J ug/L
benzo(k)fluoranthene	2.0 J ug/L
benzo(a)pyrene	1.0 J ug/L

* Common laboratory contaminant

- Non-spiked compounds, other than blank contaminants, were detected in the semivolatile analysis of sample CPS51 and the MS/MSD analyses of this sample. The results and precision estimates are as follows:

Compound	Concentration (ug/Kg) CPS51	MS	MSD	%RSD
Fluorene	49 J	ND	ND	IN
Phenanthrene	660	280 J	120 J	78
Anthracene	100 J	ND	ND	IN
Fluoranthene	430	560	160 J	53
Indeno(1,2,3-cd)pyrene	120 J	180 J	82 J	39
Dibenzo(a,h)anthracene	ND	59 J	77 J	*26
Benzo(g,h,i)perylene	130 J	190 J	ND	*38

RSD = Relative Standard Deviation
ND = Not-detected
* = Relative Percent Difference (RPD) instead of %RSD
IN = Insufficient Data

- In the volatile analyses of sample CPS48 and CPS48RE, chlorobenzene was reported only in sample CPS48RE. See Form I in Appendix B.

- The semivolatile extraction of the soil samples CPS44 - CPS49 and CPS51 - CPS55; and the pesticide/PCB extraction of samples CPS44 - CPS55 were performed ten (10) days after the date of sample collection. The technical holding time of seven (7) days for aqueous samples has been exceeded by three (3) days. Due to the stability of the compounds in soil samples, no data were qualified for this minor holding time violation. See Form Is in Appendix B and Traffic Reports in Appendix D

- In the semivolatile continuing calibrations dated 01/06/95, 3-nitroaniline had a relative response factor (RRF) and percent differences (%D) outside of the QC limits for the method blank SBLKJF. No data were qualified. See Form VII SV-I in Appendix D.

- In the semivolatile continuing calibration dated 01/06/95, the surrogate 2,4,6-tribromophenol had a percent difference (%D) greater than the QC limits. No data were qualified. See Form VII SV-2 in Appendix D.

- The semivolatile analyses of aqueous sample CPS41 had the recovery for one (1) base/neutral surrogate lower than the QC limit. No data were qualified. See Form II SV-1 in Appendix D.

- The semivolatile analyses of aqueous samples CPS35MS/MSD had one (1) out of twenty-two (22) spike recoveries outside the QC limits. No data were qualified. See Form III SV-1 in Appendix D.

- Compounds detected below the Contract Required Quantitation Limits (CRQL) were qualified "J" on the Forms Is by the laboratory and reviewer.

- The semivolatile analysis of soil samples CPS51MS/MSD had two (2) out of eleven (11) RPDs and one (1) out of twenty-two (22) spike recoveries outside of the QC limits. See Form III SV-2 in Appendix D.

- In the semivolatile analysis of soil sample CPS55, the acid surrogate 2,4,6-tribromophenol had a recovery lower than the QC limits. No data were qualified. See Form II SV-2 in Appendix D.

- In the semivolatile analysis of soil sample CPS49, all surrogates were diluted out. The narrative states that the sample was not concentrated to the required volume, also the sample had a higher dilution (1:100) for the analysis. The CRQLs are elevated for this sample. See Form I in Appendix B and Form II-SV2 and Case Narrative in Appendix D.

- The pesticide/PCB analysis of aqueous sample CPS35MSD had the recovery for surrogate tetrachloro-m-xylene (TCX) outside the lower QC limits. No data were qualified. See Form II Pest-1 in Appendix D.

- The pesticide/PCB analysis of aqueous sample CPS35MS/MSD had six (6) out of six (6) relative percent differences (RPD) outside of the QC limits. See Form III Pest-1 in Appendix D.

- The pesticide/PCB analyses of soil samples CPS45, CPS55 and PBLK01 had recoveries for surrogate TCX outside the QC limits. No data were qualified. See Form II Pest 2 in Appendix D.

- Sample weights other than thirty (30) grams were used in the semivolatile and pesticide/PCB soil analyses. See Form Is in Appendix B.

- The Tentatively Identified Compounds (TICs) in Appendix C were reviewed and corrected during data validation. Compounds identified as blank contaminants were crossed off the TIC Form Is.

All data for Case 23084 were reviewed in accordance with the Innovative Approaches for Validation of Organic Data (Level M2) in conjunction with the National Functional Guidelines for Evaluating Organic Analyses with Modification for use within Region III.

ATTACHMENTS

1) Appendix A - Glossary of Data Qualifiers
2) Appendix B - Results as Reported by the Laboratory for All Target Compounds
3) Appendix C - Reviewed and Corrected Tentatively Identified Compounds
4) Appendix D - Support Documentation

DCN:BM502A02.CSB

Appendix A

Glossary of Data Qualifiers

ORIGINAL (Red)

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of compounds)

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

NO CODE = Confirmed identification.

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

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

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

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

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

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

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

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

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

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

Q = No analytical result.

Appendix B

Results Reported by the Laboratory and Qualified by the Reviewer Based on Level M2 Validation

Review: M2 Level

Location: RES -1 1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

CPS35

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ934

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

FORM I VOA QV = QUALIFIER AFTER VALIDATION /90

Review: M2 Level

Location: TB - 1 1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

CPS34

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-18

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ933

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

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FORM I VOA QV = QUALIFIER AFTER VALIDATION '90

Review: M2 Level

DUPLICATE OF CPS39

Location: RES - 2 1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

CPS36

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-20

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ906

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

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FORM I VC QV = QUALIFIER AFTER VALIDATION 3/90

Review: M2 Level

Location: RES - 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS37

Lab Name: CEIMIC CORP Contract: 63-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-21

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ907

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

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FORM I VOA QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

Location: RES - 4 1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS38

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-22

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ908

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

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QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

Location: RES - 5 1A DUPLICATE OF CPS36

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS39

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-23

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ909

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

Review: M2 Level

Location: SW-1

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS40

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ928

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

FORM I VOA QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

Location: SW-2 1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS41

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ929

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

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FORM I VOA QV = QUALIFIER AFTER VALIDATION /90

Review: M2 Level

Location: SW-3 1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS42

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ930

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

Review: M2 Level

Location: SW-4

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS43

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-04

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ931

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q	QV
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	BJ	B
67-64-1	Acetone	8	J	B
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	1	J	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	10	U	

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Review: M2 Level

Location: B - 1

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK

CPS56

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-17

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ932

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

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FORM I VOA QV = QUALIFIER AFTER VALIDATION

/90

Review: M2 Level

1A Location: SED -1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS44

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG480

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 33 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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

BM 2/15/95

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QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1A Location: SED - 2

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

CPS45

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ884

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 79 Date Analyzed: 12/27/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	48	U	
74-83-9	Bromomethane	48	U	
75-01-4	Vinyl Chloride	48	U	
75-00-3	Chloroethane	48	U	UJ
75-09-2	Methylene Chloride	8	BJ	B
67-64-1	Acetone	800	B	J
75-15-0	Carbon Disulfide	48	U	
75-35-4	1,1-Dichloroethene	48	U	
75-34-3	1,1-Dichloroethane	48	U	
540-59-0	1,2-Dichloroethene (total)	48	U	
67-66-3	Chloroform	48	U	
107-06-2	1,2-Dichloroethane	48	U	
78-93-3	2-Butanone	210		J
71-55-6	1,1,1-Trichloroethane	48	U	
56-23-5	Carbon Tetrachloride	48	U	
75-27-4	Bromodichloromethane	48	U	
78-87-5	1,2-Dichloropropane	48	U	
10061-01-5	cis-1,3-Dichloropropene	48	U	
79-01-6	Trichloroethene	48	U	
124-48-1	Dibromochloromethane	48	U	
79-00-5	1,1,2-Trichloroethane	48	U	
71-43-2	Benzene	48	U	
10061-02-6	trans-1,3-Dichloropropene	48	U	
75-25-2	Bromoform	48	U	
108-10-1	4-Methyl-2-Pentanone	48	U	
591-78-6	2-Hexanone	48	U	UJ
127-18-4	Tetrachloroethene	48	U	
79-34-5	1,1,2,2-Tetrachloroethane	48	U	
108-88-3	Toluene	48	U	
108-90-7	Chlorobenzene	48	U	
100-41-4	Ethylbenzene	48	U	
100-42-5	Styrene	48	U	
1330-20-7	Xylene (total)	48	U	

BM 2/15/

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FORM I VOA 3/90

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1A Location: SED - 3

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS46

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG511

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 25 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
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	BJ	B
67-64-1	Acetone	26	B	B
75-15-0	Carbon Disulfide	13	U	
75-35-4	1,1-Dichloroethene	13	U	
75-34-3	1,1-Dichloroethane	13	U	
540-59-0	1,2-Dichloroethene (total)	13	U	
67-66-3	Chloroform	13	U	
107-06-2	1,2-Dichloroethane	13	U	
78-93-3	2-Butanone	13	U	
71-55-6	1,1,1-Trichloroethane	13	U	
56-23-5	Carbon Tetrachloride	13	U	
75-27-4	Bromodichloromethane	13	U	
78-87-5	1,2-Dichloropropane	13	U	
10061-01-5	cis-1,3-Dichloropropene	13	U	
79-01-6	Trichloroethene	13	U	
124-48-1	Dibromochloromethane	13	U	
79-00-5	1,1,2-Trichloroethane	13	U	
71-43-2	Benzene	13	U	
10061-02-6	trans-1,3-Dichloropropene	13	U	
75-25-2	Bromoform	13	U	
108-10-1	4-Methyl-2-Pentanone	13	U	
591-78-6	2-Hexanone	13	U	
127-18-4	Tetrachloroethene	13	U	
79-34-5	1,1,2,2-Tetrachloroethane	13	U	
108-88-3	Toluene	13	U	
108-90-7	Chlorobenzene	13	U	
100-41-4	Ethylbenzene	13	U	
100-42-5	Styrene	13	U	
1330-20-7	Xylene (total)	13	U	

BR 2/15

FORM I VOA

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1A Location: S-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS48RE

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-09RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG558

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 20 Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	2	BJ	B
67-64-1	Acetone	5	BJ	B
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	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	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	12	U	UJ
591-78-6	2-Hexanone	12	U	↓
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	↓
108-88-3	Toluene	12	U	UJ
108-90-7	Chlorobenzene	2	J	J
100-41-4	Ethylbenzene	12	U	UJ
100-42-5	Styrene	12	U	↓
1330-20-7	Xylene (total)	12	U	UJ

BM 2/15

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QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1A Location: SED - 4

EPA SAMPLE

CPS47

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG512

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 32 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

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QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1A Location: S-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS49RE

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-10RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG564

Le (low/med) LOW Date Received: 12/22/94

% Moist. 40 Date Analyzed: 12/28/94

GC Column: HP-624 : 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
74-87-3	Chloromethane	17	U	
74-83-9	Bromomethane	17	U	
75-01-4	Vinyl Chloride	17	U	
75-00-3	Chloroethane	17	U	
75-09-2	Methylene Chloride	12	BJ	B
67-64-1	Acetone	7	BJ	B
75-15-0	Carbon Disulfide	17	U	
75-35-4	1,1-Dichloroethene	17	U	
75-34-3	1,1-Dichloroethane	17	U	
540-59-0	1,2-Dichloroethene (total)	17	U	
67-66-3	Chloroform	17	U	
107-06-2	1,2-Dichloroethane	17	U	
78-93-3	2-Butanone	17	U	
71-55-6	1,1,1-Trichloroethane	17	U	UJ
56-23-5	Carbon Tetrachloride	17	U	
75-27-4	Bromodichloromethane	17	U	
78-87-5	1,2-Dichloropropane	17	U	
10061-01-5	cis-1,3-Dichloropropene	17	U	
79-01-6	Trichloroethene	17	U	
124-48-1	Dibromochloromethane	17	U	
79-00-5	1,1,2-Trichloroethane	17	U	
71-43-2	Benzene	17	U	
10061-02-6	trans-1,3-Dichloropropene	17	U	
75-25-2	Bromoform	17	U	
108-10-1	4-Methyl-2-Pentanone	17	U	
591-78-6	2-Hexanone	17	U	
127-18-4	Tetrachloroethene	17	U	
79-34-5	1,1,2,2-Tetrachloroethane	17	U	
108-88-3	Toluene	17	U	
108-90-7	Chlorobenzene	17	U	
100-41-4	Ethylbenzene	17	U	
100-42-5	Styrene	17	U	
1330-20-7	Xylene (total)	17	U	UJ

BM 2/1

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FORM I VOA '90

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1A Location: S - 3

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

CPS50

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG513

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 8 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	3	BJ	B
67-64-1	Acetone	6	BJ	B
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	11	U	

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1A Location: S - 4

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS51

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG514

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 15 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	3	BJ	B
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	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	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	12	U	
591-78-6	2-Hexanone	12	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	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Xylene (total)	12	U	

BM 2/15/

FORM I VOA QV = QUALIFIER AFTER VALIDATION '90

Review: M2 Level

1A Location: S - 5

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

CPS52

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ851

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 13 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	Qv
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	UJ
75-09-2	Methylene Chloride	13	B	B
67-64-1	Acetone	37	B	B
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	11	U	

FORM I VOA QV = QUALIFIER AFTER VALIDATION 3/90

DUPLICATE OF CPS55

Review: M2 Level

1A Location: S - 6

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS53

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ852

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 7 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	UJ
75-09-2	Methylene Chloride	11	B	B
67-64-1	Acetone	22	B	B
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	11	U	

BM 2/15

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FORM I VOA QV = QUALIFIER AFTER VALIDATION 3/90

Review: M2 Level

1A Location: S - 7

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS54

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ853

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 13 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	UJ
75-09-2	Methylene Chloride	16	B	B
67-64-1	Acetone	13	B	B
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	2	J	J
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	11	U	

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DUPLICATE OF CPS53

Review: M2 Level

1A

Location: S - 8

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

CPS55

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ854

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 6 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	UJ
75-09-2	Methylene Chloride	10	BJ	B
67-64-1	Acetone	8	BJ	B
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	11	U	r

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FORM I VOA QV = QUALIFIER AFTER VALIDATION

/90

Review: M2 Level

Location: RES -1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS35

Lab Name: TEIMIC CORP Contract: 68-D2-0021

Lab Code: TEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF803

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

306

FORM I SV-1

0

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS35

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF803

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

DUPLICATE OF CPS39

Location: RES - 2

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CPS36

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-20

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF820

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

FORM I SV-1

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS36

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-20

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF820

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

314

Review: M2 Level

Location: RES - 3

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS37

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-21

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF821

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

FORM I SV-1 /90

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS37

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-21

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF821

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

320

Review: M2 Level

Location: RES - 4

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS38

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-22

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF822

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

FORM I SV-1 3/90

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS38

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-22

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF822

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

DUPLICATE OF CPS36

Location: RES - 5

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS39

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-23

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF823

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	QV
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		
95-50-1	1,2-Dichlorobenzene	10	U		
95-48-7	2-Methylphenol	10	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	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		
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	25	U		
91-58-7	2-Chloronaphthalene	10	U		
88-74-4	2-Nitroaniline	25	U		
131-11-3	Dimethyl Phthalate	10	U		
208-96-8	Acenaphthylene	10	U		
606-20-2	2,6-Dinitrotoluene	10	U		
99-09-2	3-Nitroaniline	25	U		
83-32-9	Acenaphthene	10	U		

FORM I SV-1 7/90

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS39

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-23

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF823

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

Location: SW-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS40

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB699

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	QV
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		
95-50-1	1,2-Dichlorobenzene	10	U		
95-48-7	2-Methylphenol	10	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	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		
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	25	U		
91-58-7	2-Chloronaphthalene	10	U		
88-74-4	2-Nitroaniline	25	U		
131-11-3	Dimethyl Phthalate	10	U		
208-96-8	Acenaphthylene	10	U		
606-20-2	2,6-Dinitrotoluene	10	U		
99-09-2	3-Nitroaniline	25	U		
83-32-9	Acenaphthene	10	U		

FORM I SV-1

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS40

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB699

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	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	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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
86-74-8	Carbazole	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

Location: SW-2

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS41

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB700

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	Qv
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		
95-50-1	1,2-Dichlorobenzene	10	U		
95-48-7	2-Methylphenol	10	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	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		
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	25	U		
91-58-7	2-Chloronaphthalene	10	U		
88-74-4	2-Nitroaniline	25	U		
131-11-3	Dimethyl Phthalate	10	U		
208-96-8	Acenaphthylene	10	U		
606-20-2	2,6-Dinitrotoluene	10	U		
99-09-2	3-Nitroaniline	25	U		
83-32-9	Acenaphthene	10	U		

FORM I SV-1 3/90

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS41

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB700

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

Location: SW-3

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS42

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB735

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS42

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB735

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	aJ
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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

BM 2/15

Review: M2 Level

Location: SW-4

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS43

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J3702

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q	QV
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		
95-50-1	1,2-Dichlorobenzene	10	U		
95-48-7	2-Methylphenol	10	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	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		
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	25	U		
91-58-7	2-Chloronaphthalene	10	U		
88-74-4	2-Nitroaniline	25	U		
131-11-3	Dimethyl Phthalate	10	U		
208-96-8	Acenaphthylene	10	U		
606-20-2	2,6-Dinitrotoluene	10	U		
99-09-2	3-Nitroaniline	25	U		
83-32-9	Acenaphthene	10	U		

QV = QUALIFIER AFTER VALIDATION

1

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS43

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB702

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

Location: B - 1

BLANK

13

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS56

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-17

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF819

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q QV
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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

FORM I SV-1

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS56

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-17

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF819

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	U	
56-55-3	Benzo(a)Anthracene	10	U	
218-01-9	Chrysene	10	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	1	BJ	B
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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

Location: SED -1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS44

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-05

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF847

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q QV
108-95-2	Phenol	410	U	
111-44-4	bis(2-Chloroethyl)Ether	410	U	
95-57-8	2-Chlorophenol	410	U	
541-73-1	1,3-Dichlorobenzene	410	U	
106-46-7	1,4-Dichlorobenzene	410	U	
95-50-1	1,2-Dichlorobenzene	410	U	
95-48-7	2-Methylphenol	410	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U	
106-44-5	4-Methylphenol	410	U	
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	
67-72-1	Hexachloroethane	410	U	
98-95-3	Nitrobenzene	410	U	
78-59-1	Isophorone	410	U	
88-75-5	2-Nitrophenol	410	U	
105-67-9	2,4-Dimethylphenol	410	U	
111-91-1	bis(2-Chloroethoxy)Methane	410	U	
120-83-2	2,4-Dichlorophenol	410	U	
120-82-1	1,2,4-Trichlorobenzene	410	U	
91-20-3	Naphthalene	410	U	
106-47-8	4-Chloroaniline	410	U	
87-68-3	Hexachlorobutadiene	410	U	
59-50-7	4-Chloro-3-Methylphenol	410	U	
91-57-6	2-Methylnaphthalene	410	U	
77-47-4	Hexachlorocyclopentadiene	410	U	
88-06-2	2,4,6-Trichlorophenol	410	U	
95-95-4	2,4,5-Trichlorophenol	1000	U	
91-58-7	2-Chloronaphthalene	410	U	
88-74-4	2-Nitroaniline	1000	U	
131-11-3	Dimethyl Phthalate	410	U	
208-96-8	Acenaphthylene	410	U	
606-20-2	2,6-Dinitrotoluene	410	U	
99-09-2	3-Nitroaniline	1000	U	
83-32-9	Acenaphthene	410	U	

FORM I SV-1 3/90

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS44

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-05

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF847

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Di-n-Butylphthalate	410	U
206-44-0	Fluoranthene	410	U
86-74-8	Carbazole	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)Anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)Phthalate	410	U
117-84-0	Di-n-Octyl Phthalate	410	U
205-99-2	Benzo(b)Fluoranthene	410	U
207-08-9	Benzo(k)Fluoranthene	410	U
50-32-8	Benzo(a)Pyrene	410	U
193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
53-70-3	Dibenzo(a,h)Anthracene	410	U
191-24-2	Benzo(g,h,i)Perylene	410	U

(1) - Cannot be separated from Diphenylamine

167

Review: M2 Level

Location: SED - 2

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS45

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-06

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF848

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 77 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	QV
108-95-2	Phenol	1400	U		
111-44-4	bis(2-Chloroethyl)Ether	1400	U		
95-57-8	2-Chlorophenol	1400	U		
541-73-1	1,3-Dichlorobenzene	1400	U		
106-46-7	1,4-Dichlorobenzene	1400	U		
95-50-1	1,2-Dichlorobenzene	1400	U		
95-48-7	2-Methylphenol	1400	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	1400	U		
106-44-5	4-Methylphenol	1400	U		
621-64-7	N-Nitroso-Di-n-Propylamine	1400	U		
67-72-1	Hexachloroethane	1400	U		
98-95-3	Nitrobenzene	1400	U		
78-59-1	Isophorone	1400	U		
88-75-5	2-Nitrophenol	1400	U		
105-67-9	2,4-Dimethylphenol	1400	U		
111-91-1	bis(2-Chloroethoxy)Methane	1400	U		
120-83-2	2,4-Dichlorophenol	1400	U		
120-82-1	1,2,4-Trichlorobenzene	1400	U		
91-20-3	Naphthalene	1400	U		
106-47-8	4-Chloroaniline	1400	U		
87-68-3	Hexachlorobutadiene	1400	U		
59-50-7	4-Chloro-3-Methylphenol	1400	U		
91-57-6	2-Methylnaphthalene	380	J	J	
77-47-4	Hexachlorocyclopentadiene	1400	U		
88-06-2	2,4,6-Trichlorophenol	1400	U		
95-95-4	2,4,5-Trichlorophenol	3400	U		
91-58-7	2-Chloronaphthalene	1400	U		
88-74-4	2-Nitroaniline	3400	U		
131-11-3	Dimethyl Phthalate	1400	U		
208-96-8	Acenaphthylene	1400	U		
606-20-2	2,6-Dinitrotoluene	1400	U		
99-09-2	3-Nitroaniline	3400	U		
83-32-9	Acenaphthene	1400	U		

BM 2/15/95

FORM I SV-1

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS45

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-06

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF848

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 77 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	3400	U	
100-02-7	4-Nitrophenol	3400	U	
132-64-9	Dibenzofuran	1400	U	
121-14-2	2,4-Dinitrotoluene	1400	U	
84-66-2	Diethylphthalate	1400	U	
7005-72-3	4-Chlorophenyl-phenylether	1400	U	
86-73-7	Fluorene	210	J	J
100-01-6	4-Nitroaniline	3400	U	
534-52-1	4,6-Dinitro-2-Methylphenol	3400	U	
86-30-6	N-Nitrosodiphenylamine (1)	1400	U	
101-55-3	4-Bromophenyl-phenylether	1400	U	
118-74-1	Hexachlorobenzene	1400	U	
87-86-5	Pentachlorophenol	3400	U	
85-01-8	Phenanthrene	710	J	J
120-12-7	Anthracene	1400	U	
84-74-2	Di-n-Butylphthalate	1400	U	
206-44-0	Fluoranthene	1300	J	J
86-74-8	Carbazole	1400	U	
129-00-0	Pyrene	1800		
85-68-7	Butylbenzylphthalate	1400	U	
91-94-1	3,3'-Dichlorobenzidine	1400	U	
56-55-3	Benzo(a)Anthracene	560	J	B
218-01-9	Chrysene	1000	J	B
117-81-7	bis(2-Ethylhexyl)Phthalate	2300		B
117-84-0	Di-n-Octyl Phthalate	1400	U	
205-99-2	Benzo(b)Fluoranthene	970	J	B
207-08-9	Benzo(k)Fluoranthene	430	J	B
50-32-8	Benzo(a)Pyrene	590	J	B
193-39-5	Indeno(1,2,3-cd)Pyrene	420	J	J
53-70-3	Dibenzo(a,h)Anthracene	1400	U	
191-24-2	Benzo(g,h,i)Perylene	460	J	J

(1) - Cannot be separated from Diphenylamine

494

Review: M2 Level

Location: SED - 3

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS46

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-07

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AF851

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	410	U	
111-44-4	bis(2-Chloroethyl)Ether	410	U	
95-57-8	2-Chlorophenol	410	U	
541-73-1	1,3-Dichlorobenzene	410	U	
106-46-7	1,4-Dichlorobenzene	410	U	
95-50-1	1,2-Dichlorobenzene	410	U	
95-48-7	2-Methylphenol	410	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U	
106-44-5	4-Methylphenol	410	U	
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	
67-72-1	Hexachloroethane	410	U	
98-95-3	Nitrobenzene	410	U	
78-59-1	Isophorone	410	U	
88-75-5	2-Nitrophenol	410	U	
105-67-9	2,4-Dimethylphenol	410	U	
111-91-1	bis(2-Chloroethoxy)Methane	410	U	
120-83-2	2,4-Dichlorophenol	410	U	
120-82-1	1,2,4-Trichlorobenzene	410	U	
91-20-3	Naphthalene	410	U	
106-47-8	4-Chloroaniline	410	U	
87-68-3	Hexachlorobutadiene	410	U	
59-50-7	4-Chloro-3-Methylphenol	410	U	
91-57-6	2-Methylnaphthalene	410	U	
77-47-4	Hexachlorocyclopentadiene	410	U	
88-06-2	2,4,6-Trichlorophenol	410	U	
95-95-4	2,4,5-Trichlorophenol	1000	U	
91-58-7	2-Chloronaphthalene	410	U	
88-74-4	2-Nitroaniline	1000	U	
131-11-3	Dimethyl Phthalate	410	U	
208-96-8	Acenaphthylene	410	U	
606-20-2	2,6-Dinitrotoluene	410	U	
99-09-2	3-Nitroaniline	1000	U	
83-32-9	Acenaphthene	410	U	

FORM I SV-1

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS46

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-07

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AF851

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	1000	U	
100-02-7	4-Nitrophenol	1000	U	
132-64-9	Dibenzofuran	410	U	
121-14-2	2,4-Dinitrotoluene	410	U	
84-66-2	Diethylphthalate	410	U	
7005-72-3	4-Chlorophenyl-phenylether	410	U	
86-73-7	Fluorene	410	U	
100-01-6	4-Nitroaniline	1000	U	
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U	
86-30-6	N-Nitrosodiphenylamine (1)	410	U	
101-55-3	4-Bromophenyl-phenylether	410	U	
118-74-1	Hexachlorobenzene	410	U	
87-86-5	Pentachlorophenol	1000	U	
85-01-8	Phenanthrene	160	J	J
120-12-7	Anthracene	410	U	
84-74-2	Di-n-Butylphthalate	66	J	J
206-44-0	Fluoranthene	210	J	J
86-74-8	Carbazole	410	U	
129-00-0	Pyrene	300	J	J
85-68-7	Butylbenzylphthalate	410	U	
91-94-1	3,3'-Dichlorobenzidine	410	U	
56-55-3	Benzo(a)Anthracene	100	J	B
218-01-9	Chrysene	140	J	B
117-81-7	bis(2-Ethylhexyl)Phthalate	220	J	B
117-84-0	Di-n-Octyl Phthalate	410	U	
205-99-2	Benzo(b)Fluoranthene	190	J	B
207-08-9	Benzo(k)Fluoranthene	120	J	B
50-32-8	Benzo(a)Pyrene	190	J	B
193-39-5	Indeno(1,2,3-cd)Pyrene	130	J	J
53-70-3	Dibenzo(a,h)Anthracene	49	J	J
191-24-2	Benzo(g,h,i)Perylene	180	J	J

(1) - Cannot be separated from Diphenylamine

535

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS47

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-08

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF824

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	970	U	
100-02-7	4-Nitrophenol	970	U	
132-64-9	Dibenzofuran	400	U	
121-14-2	2,4-Dinitrotoluene	400	U	
84-66-2	Diethylphthalate	400	U	
7005-72-3	4-Chlorophenyl-phenylether	400	U	
86-73-7	Fluorene	400	U	
100-01-6	4-Nitroaniline	970	U	
534-52-1	4,6-Dinitro-2-Methylphenol	970	U	
86-30-6	N-Nitrosodiphenylamine (1)	400	U	
101-55-3	4-Bromophenyl-phenylether	400	U	
118-74-1	Hexachlorobenzene	400	U	
87-86-5	Pentachlorophenol	970	U	
85-01-8	Phenanthrene	400	U	
120-12-7	Anthracene	400	U	
84-74-2	Di-n-Butylphthalate	400	U	
206-44-0	Fluoranthene	49	J	J
86-74-8	Carbazole	400	U	
129-00-0	Pyrene	46	J	J
85-68-7	Butylbenzylphthalate	400	U	
91-94-1	3,3'-Dichlorobenzidine	400	U	
56-55-3	Benzo(a)Anthracene	400	U	
218-01-9	Chrysene	400	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	130	J	B
117-84-0	Di-n-Octyl Phthalate	400	U	
205-99-2	Benzo(b)Fluoranthene	47	J	B
207-08-9	Benzo(k)Fluoranthene	400	U	
50-32-8	Benzo(a)Pyrene	400	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	400	U	
53-70-3	Dibenzo(a,h)Anthracene	400	U	
191-24-2	Benzo(g,h,i)Perylene	400	U	

QV BM 2/15/95

(1) - Cannot be separated from Diphenylamine

575

Review: M2 Level

Location: SED - 4 1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CPS47

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-08

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF824

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	400	U	
111-44-4	bis(2-Chloroethyl)Ether	400	U	
95-57-8	2-Chlorophenol	400	U	
541-73-1	1,3-Dichlorobenzene	400	U	
106-46-7	1,4-Dichlorobenzene	400	U	
95-50-1	1,2-Dichlorobenzene	400	U	
95-48-7	2-Methylphenol	400	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U	
106-44-5	4-Methylphenol	400	U	
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	
67-72-1	Hexachloroethane	400	U	
98-95-3	Nitrobenzene	400	U	
78-59-1	Isophorone	400	U	
88-75-5	2-Nitrophenol	400	U	
105-67-9	2,4-Dimethylphenol	400	U	
111-91-1	bis(2-Chloroethoxy)Methane	400	U	
120-83-2	2,4-Dichlorophenol	400	U	
120-82-1	1,2,4-Trichlorobenzene	400	U	
91-20-3	Naphthalene	400	U	
106-47-8	4-Chloroaniline	400	U	
87-68-3	Hexachlorobutadiene	400	U	
59-50-7	4-Chloro-3-Methylphenol	400	U	
91-57-6	2-Methylnaphthalene	400	U	
77-47-4	Hexachlorocyclopentadiene	400	U	
88-06-2	2,4,6-Trichlorophenol	400	U	
95-95-4	2,4,5-Trichlorophenol	970	U	
91-58-7	2-Chloronaphthalene	400	U	
88-74-4	2-Nitroaniline	970	U	
131-11-3	Dimethyl Phthalate	400	U	
208-96-8	Acenaphthylene	400	U	
606-20-2	2,6-Dinitrotoluene	400	U	
99-09-2	3-Nitroaniline	970	U	
83-32-9	Acenaphthene	400	U	

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

Location: S - 1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS48

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-09

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF834

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q QV
108-95-2	Phenol	390	U	
111-44-4	bis(2-Chloroethyl)Ether	390	U	
95-57-8	2-Chlorophenol	390	U	
541-73-1	1,3-Dichlorobenzene	390	U	
106-46-7	1,4-Dichlorobenzene	390	U	
95-50-1	1,2-Dichlorobenzene	390	U	
95-48-7	2-Methylphenol	390	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U	
106-44-5	4-Methylphenol	390	U	
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	
67-72-1	Hexachloroethane	390	U	
98-95-3	Nitrobenzene	390	U	
78-59-1	Isophorone	390	U	
88-75-5	2-Nitrophenol	390	U	
105-67-9	2,4-Dimethylphenol	390	U	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	
120-83-2	2,4-Dichlorophenol	390	U	
120-82-1	1,2,4-Trichlorobenzene	390	U	
91-20-3	Naphthalene	390	U	
106-47-8	4-Chloroaniline	390	U	
87-68-3	Hexachlorobutadiene	390	U	
59-50-7	4-Chloro-3-Methylphenol	390	U	
91-57-6	2-Methylnaphthalene	390	U	
77-47-4	Hexachlorocyclopentadiene	390	U	
88-06-2	2,4,6-Trichlorophenol	390	U	
95-95-4	2,4,5-Trichlorophenol	950	U	
91-58-7	2-Chloronaphthalene	390	U	
88-74-4	2-Nitroaniline	950	U	
131-11-3	Dimethyl Phthalate	390	U	
208-96-8	Acenaphthylene	390	U	
606-20-2	2,6-Dinitrotoluene	390	U	
99-09-2	3-Nitroaniline	950	U	
83-32-9	Acenaphthene	390	U	

605

FORM I SV-1 3/90

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS48

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-09

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF834

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	950	U	
100-02-7	4-Nitrophenol	950	U	
132-64-9	Dibenzofuran	390	U	
121-14-2	2,4-Dinitrotoluene	390	U	
84-66-2	Diethylphthalate	390	U	
7005-72-3	4-Chlorophenyl-phenylether	390	U	
86-73-7	Fluorene	390	U	
100-01-6	4-Nitroaniline	950	U	
534-52-1	4,6-Dinitro-2-Methylphenol	950	U	
86-30-6	N-Nitrosodiphenylamine (1)	390	U	
101-55-3	4-Bromophenyl-phenylether	390	U	
118-74-1	Hexachlorobenzene	390	U	
87-86-5	Pentachlorophenol	950	U	
85-01-8	Phenanthrene	48	J	J
120-12-7	Anthracene	390	U	
84-74-2	Di-n-Butylphthalate	390	U	
206-44-0	Fluoranthene	110	J	J
86-74-8	Carbazole	390	U	
129-00-0	Pyrene	160	J	J
85-68-7	Butylbenzylphthalate	390	U	
91-94-1	3,3'-Dichlorobenzidine	390	U	
56-55-3	Benzo(a)Anthracene	79	J	B
218-01-9	Chrysene	100	J	B
117-81-7	bis(2-Ethylhexyl)Phthalate	300	J	B
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	150	J	B
207-08-9	Benzo(k)Fluoranthene	51	J	B
50-32-8	Benzo(a)Pyrene	130	J	B
193-39-5	Indeno(1,2,3-cd)Pyrene	77	J	J
53-70-3	Dibenzo(a,h)Anthracene	390	U	
191-24-2	Benzo(g,h,i)Perylene	83	J	J

(1) - Cannot be separated from Diphenylamine

606

Review: M2 Level

Location: S-2 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS49

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-10

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AF885

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 31 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/17/95

Injection Volume: 2.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	95000	U	
111-44-4	bis(2-Chloroethyl)Ether	95000	U	
95-57-8	2-Chlorophenol	95000	U	
541-73-1	1,3-Dichlorobenzene	95000	U	
106-46-7	1,4-Dichlorobenzene	95000	U	
95-50-1	1,2-Dichlorobenzene	95000	U	
95-48-7	2-Methylphenol	95000	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	95000	U	
106-44-5	4-Methylphenol	95000	U	
621-64-7	N-Nitroso-Di-n-Propylamine	95000	U	
67-72-1	Hexachloroethane	95000	U	
98-95-3	Nitrobenzene	95000	U	
78-59-1	Isophorone	95000	U	
88-75-5	2-Nitrophenol	95000	U	
105-67-9	2,4-Dimethylphenol	95000	U	
111-91-1	bis(2-Chloroethoxy)Methane	95000	U	
120-83-2	2,4-Dichlorophenol	95000	U	
120-82-1	1,2,4-Trichlorobenzene	95000	U	
91-20-3	Naphthalene	95000	U	
106-47-8	4-Chloroaniline	95000	U	
87-68-3	Hexachlorobutadiene	95000	U	
59-50-7	4-Chloro-3-Methylphenol	95000	U	
91-57-6	2-Methylnaphthalene	95000	U	
77-47-4	Hexachlorocyclopentadiene	95000	U	
88-06-2	2,4,6-Trichlorophenol	95000	U	
95-95-4	2,4,5-Trichlorophenol	230000	U	
91-58-7	2-Chloronaphthalene	95000	U	
88-74-4	2-Nitroaniline	230000	U	
131-11-3	Dimethyl Phthalate	95000	U	
208-96-8	Acenaphthylene	95000	U	
606-20-2	2,6-Dinitrotoluene	95000	U	
99-09-2	3-Nitroaniline	230000	U	
83-32-9	Acenaphthene	95000	U	

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS49

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-10

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AF885

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 31 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/17/95

Injection Volume: 2.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	230000	U	
100-02-7	4-Nitrophenol	230000	U	
132-64-9	Dibenzofuran	95000	U	
121-14-2	2,4-Dinitrotoluene	95000	U	
84-66-2	Diethylphthalate	95000	U	
7005-72-3	4-Chlorophenyl-phenylether	95000	U	
86-73-7	Fluorene	95000	U	
100-01-6	4-Nitroaniline	230000	U	
534-52-1	4,6-Dinitro-2-Methylphenol	230000	U	
86-30-6	N-Nitrosodiphenylamine (1)	95000	U	
101-55-3	4-Bromophenyl-phenylether	95000	U	
118-74-1	Hexachlorobenzene	95000	U	
87-86-5	Pentachlorophenol	230000	U	
85-01-8	Phenanthrene	95000	U	
120-12-7	Anthracene	95000	U	
84-74-2	Di-n-Butylphthalate	95000	U	
206-44-0	Fluoranthene	95000	U	
86-74-8	Carbazole	95000	U	
129-00-0	Pyrene	95000	U	
85-68-7	Butylbenzylphthalate	95000	U	
91-94-1	3,3'-Dichlorobenzidine	95000	U	
56-55-3	Benzo(a)Anthracene	95000	U	
218-01-9	Chrysene	95000	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	95000	U	
117-84-0	Di-n-Octyl Phthalate	95000	U	
205-99-2	Benzo(b)Fluoranthene	95000	U	
207-08-9	Benzo(k)Fluoranthene	95000	U	
50-32-8	Benzo(a)Pyrene	95000	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	95000	U	
53-70-3	Dibenzo(a,h)Anthracene	95000	U	
191-24-2	Benzo(g,h,i)Perylene	95000	U	

(1) - Cannot be separated from Diphenylamine

Review: M2 Level

Location: S - 3

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS50

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JB848

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 01/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/19/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	420	U	UJ
111-44-4	bis(2-Chloroethyl)Ether	420	U	
95-57-8	2-Chlorophenol	420	U	
541-73-1	1,3-Dichlorobenzene	420	U	
106-46-7	1,4-Dichlorobenzene	420	U	
95-50-1	1,2-Dichlorobenzene	420	U	
95-48-7	2-Methylphenol	420	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U	
106-44-5	4-Methylphenol	420	U	
621-64-7	N-Nitroso-Di-n-Propylamine	420	U	
67-72-1	Hexachloroethane	420	U	
98-95-3	Nitrobenzene	420	U	
78-59-1	Isophorone	420	U	
88-75-5	2-Nitrophenol	420	U	
105-67-9	2,4-Dimethylphenol	420	U	
111-91-1	bis(2-Chloroethoxy)Methane	420	U	
120-83-2	2,4-Dichlorophenol	420	U	
120-82-1	1,2,4-Trichlorobenzene	420	U	
91-20-3	Naphthalene	420	U	
106-47-8	4-Chloroaniline	420	U	
87-68-3	Hexachlorobutadiene	420	U	
59-50-7	4-Chloro-3-Methylphenol	420	U	
91-57-6	2-Methylnaphthalene	420	U	
77-47-4	Hexachlorocyclopentadiene	420	U	
88-06-2	2,4,6-Trichlorophenol	420	U	
95-95-4	2,4,5-Trichlorophenol	1000	U	
91-58-7	2-Chloronaphthalene	420	U	
88-74-4	2-Nitroaniline	1000	U	
131-11-3	Dimethyl Phthalate	420	U	
208-96-8	Acenaphthylene	420	U	
606-20-2	2,6-Dinitrotoluene	420	U	
99-09-2	3-Nitroaniline	1000	U	
83-32-9	Acenaphthene	420	U	UJ

BM 2/15/95

652

FORM I SV-1 3/90

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS50

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JB848

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 01/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/19/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	QV
51-28-5	2,4-Dinitrophenol	1000	U	UJ	BM 2/13
100-02-7	4-Nitrophenol	1000	U		
132-64-9	Dibenzofuran	420	U		
121-14-2	2,4-Dinitrotoluene	420	U		
84-66-2	Diethylphthalate	420	U		
7005-72-3	4-Chlorophenyl-phenylether	420	U		
86-73-7	Fluorene	420	U		
100-01-6	4-Nitroaniline	1000	U		
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U		
86-30-6	N-Nitrosodiphenylamine (1)	420	U		
101-55-3	4-Bromophenyl-phenylether	420	U		
118-74-1	Hexachlorobenzene	420	U		
87-86-5	Pentachlorophenol	1000	U		
85-01-8	Phenanthrene	420	U		
120-12-7	Anthracene	420	U		
84-74-2	Di-n-Butylphthalate	420	U	UJ	
206-44-0	Fluoranthene	58	J	J	
86-74-8	Carbazole	420	U	UJ	
129-00-0	Pyrene	49	J	J	
85-68-7	Butylbenzylphthalate	420	U	UJ	
91-94-1	3,3'-Dichlorobenzidine	420	U		
56-55-3	Benzo(a)Anthracene	420	U		
218-01-9	Chrysene	420	U	UJ	
117-81-7	bis(2-Ethylhexyl)Phthalate	630		B	
117-84-0	Di-n-Octyl Phthalate	44	J	J	
205-99-2	Benzo(b)Fluoranthene	94	J	B	
207-08-9	Benzo(k)Fluoranthene	420	U	UJ	
50-32-8	Benzo(a)Pyrene	68	J	B	
193-39-5	Indeno(1,2,3-cd)Pyrene	67	J	J	
53-70-3	Dibenzo(a,h)Anthracene	420	U	UJ	
191-24-2	Benzo(g,h,i)Perylene	73	J	J	

(1) - Cannot be separated from Diphenylamine

Location: S - 4 1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS51

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AF836

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	QV
108-95-2	Phenol	400	U		
111-44-4	bis(2-Chloroethyl)Ether	400	U		
95-57-8	2-Chlorophenol	400	U		
541-73-1	1,3-Dichlorobenzene	400	U		
106-46-7	1,4-Dichlorobenzene	400	U		
95-50-1	1,2-Dichlorobenzene	400	U		
95-48-7	2-Methylphenol	400	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U		
106-44-5	4-Methylphenol	400	U		
621-64-7	N-Nitroso-Di-n-Propylamine	400	U		
67-72-1	Hexachloroethane	400	U		
98-95-3	Nitrobenzene	400	U		
78-59-1	Isophorone	400	U		
88-75-5	2-Nitrophenol	400	U		
105-67-9	2,4-Dimethylphenol	400	U		
111-91-1	bis(2-Chloroethoxy)Methane	400	U		
120-83-2	2,4-Dichlorophenol	400	U		
120-82-1	1,2,4-Trichlorobenzene	400	U		
91-20-3	Naphthalene	400	U		
106-47-8	4-Chloroaniline	400	U		
87-68-3	Hexachlorobutadiene	400	U		
59-50-7	4-Chloro-3-Methylphenol	400	U		
91-57-6	2-Methylnaphthalene	400	U		
77-47-4	Hexachlorocyclopentadiene	400	U		
88-06-2	2,4,6-Trichlorophenol	400	U		
95-95-4	2,4,5-Trichlorophenol	970	U		
91-58-7	2-Chloronaphthalene	400	U		
88-74-4	2-Nitroaniline	970	U		
131-11-3	Dimethyl Phthalate	400	U		
208-96-8	Acenaphthylene	400	U		
606-20-2	2,6-Dinitrotoluene	400	U		
99-09-2	3-Nitroaniline	970	U		
83-32-9	Acenaphthene	59	J	J	

BM 2/16/95

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS51

Lab Name: CEIMIC CORP Contract: 66-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AF836

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	970	U	
100-02-7	4-Nitrophenol	970	U	
132-64-9	Dibenzofuran	400	U	
121-14-2	2,4-Dinitrotoluene	400	U	
84-66-2	Diethylphthalate	400	U	
7005-72-3	4-Chlorophenyl-phenylether	400	U	
86-73-7	Fluorene	49	J	J
100-01-6	4-Nitroaniline	970	U	
534-52-1	4,6-Dinitro-2-Methylphenol	970	U	
86-30-6	N-Nitrosodiphenylamine (1)	400	U	
101-55-3	4-Bromophenyl-phenylether	400	U	
118-74-1	Hexachlorobenzene	400	U	
87-86-5	Pentachlorophenol	970	U	
85-01-8	Phenanthrene	660		
120-12-7	Anthracene	100	J	J
84-74-2	Di-n-Butylphthalate	400	U	
206-44-0	Fluoranthene	430		
86-74-8	Carbazole	400	U	
129-00-0	Pyrene	760		
85-68-7	Butylbenzylphthalate	400	U	
91-94-1	3,3'-Dichlorobenzidine	400	U	
56-55-3	Benzo(a)Anthracene	270	J	B
218-01-9	Chrysene	280	J	B
117-81-7	bis(2-Ethylhexyl)Phthalate	400	U	
117-84-0	Di-n-Octyl Phthalate	400	U	
205-99-2	Benzo(b)Fluoranthene	260	J	B
207-08-9	Benzo(k)Fluoranthene	73	J	B
50-32-8	Benzo(a)Pyrene	200	J	B
193-39-5	Indeno(1,2,3-cd)Pyrene	120	J	J
53-70-3	Dibenzo(a,h)Anthracene	400	U	
191-24-2	Benzo(g,h,i)Perylene	130	J	J

(1) - Cannot be separated from Diphenylamine

BM 2/15

Location: S - 5 1B

EPA SAMPLE NO.

CPS52

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-13

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AF831

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 7 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	350	U	
111-44-4	bis(2-Chloroethyl)Ether	350	U	
95-57-8	2-Chlorophenol	350	U	
541-73-1	1,3-Dichlorobenzene	350	U	
106-46-7	1,4-Dichlorobenzene	350	U	
95-50-1	1,2-Dichlorobenzene	350	U	
95-48-7	2-Methylphenol	350	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U	
106-44-5	4-Methylphenol	350	U	
621-64-7	N-Nitroso-Di-n-Propylamine	350	U	
67-72-1	Hexachloroethane	350	U	
98-95-3	Nitrobenzene	350	U	
78-59-1	Isophorone	350	U	
88-75-5	2-Nitrophenol	350	U	
105-67-9	2,4-Dimethylphenol	350	U	
111-91-1	bis(2-Chloroethoxy)Methane	350	U	
120-83-2	2,4-Dichlorophenol	350	U	
120-82-1	1,2,4-Trichlorobenzene	350	U	
91-20-3	Naphthalene	350	U	
106-47-8	4-Chloroaniline	350	U	
87-68-3	Hexachlorobutadiene	350	U	
59-50-7	4-Chloro-3-Methylphenol	350	U	
91-57-6	2-Methylnaphthalene	350	U	
77-47-4	Hexachlorocyclopentadiene	350	U	
88-06-2	2,4,6-Trichlorophenol	350	U	
95-95-4	2,4,5-Trichlorophenol	850	U	
91-58-7	2-Chloronaphthalene	350	U	
88-74-4	2-Nitroaniline	850	U	
131-11-3	Dimethyl Phthalate	350	U	
208-96-8	Acenaphthylene	350	U	
606-20-2	2,6-Dinitrotoluene	350	U	
99-09-2	3-Nitroaniline	850	U	
83-32-9	Acenaphthene	350	U	

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS52

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-13

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AF831

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 7 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	Qv
51-28-5	2,4-Dinitrophenol	850	U		
100-02-7	4-Nitrophenol	850	U		
132-64-9	Dibenzofuran	350	U		
121-14-2	2,4-Dinitrotoluene	350	U		
84-66-2	Diethylphthalate	350	U		
7005-72-3	4-Chlorophenyl-phenylether	350	U		
86-73-7	Fluorene	350	U		
100-01-6	4-Nitroaniline	850	U		
534-52-1	4,6-Dinitro-2-Methylphenol	850	U		
86-30-6	N-Nitrosodiphenylamine (1)	350	U		
101-55-3	4-Bromophenyl-phenylether	350	U		
118-74-1	Hexachlorobenzene	350	U		
87-86-5	Pentachlorophenol	850	U		
85-01-8	Phenanthrene	350	U		
120-12-7	Anthracene	350	U		
84-74-2	Di-n-Butylphthalate	350	U		
206-44-0	Fluoranthene	350	U		
86-74-8	Carbazole	350	U		
129-00-0	Pyrene	45	J	J	
85-68-7	Butylbenzylphthalate	350	U		
91-94-1	3,3'-Dichlorobenzidine	350	U		
56-55-3	Benzo(a)Anthracene	350	U		
218-01-9	Chrysene	350	U		
117-81-7	bis(2-Ethylhexyl)Phthalate	1300		B	
117-84-0	Di-n-Octyl Phthalate	350	U		
205-99-2	Benzo(b)Fluoranthene	40	J	B	
207-08-9	Benzo(k)Fluoranthene	350	U		
50-32-8	Benzo(a)Pyrene	350	U		
193-39-5	Indeno(1,2,3-cd)Pyrene	350	U		
53-70-3	Dibenzo(a,h)Anthracene	350	U		
191-24-2	Benzo(g,h,i)Perylene	350	U		

(1) - Cannot be separated from Diphenylamine

BM 2/1

729

Review: M2 Level

Location: S - 6 1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUPLICATE OF CPS55

CPS53

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-14

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF833

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 8 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q QV
108-95-2	Phenol	360	U	
111-44-4	bis(2-Chloroethyl)Ether	360	U	
95-57-8	2-Chlorophenol	360	U	
541-73-1	1,3-Dichlorobenzene	360	U	
106-46-7	1,4-Dichlorobenzene	360	U	
95-50-1	1,2-Dichlorobenzene	360	U	
95-48-7	2-Methylphenol	360	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U	
106-44-5	4-Methylphenol	360	U	
621-64-7	N-Nitroso-Di-n-Propylamine	360	U	
67-72-1	Hexachloroethane	360	U	
98-95-3	Nitrobenzene	360	U	
78-59-1	Isophorone	360	U	
88-75-5	2-Nitrophenol	360	U	
105-67-9	2,4-Dimethylphenol	360	U	
111-91-1	bis(2-Chloroethoxy)Methane	360	U	
120-83-2	2,4-Dichlorophenol	360	U	
120-82-1	1,2,4-Trichlorobenzene	360	U	
91-20-3	Naphthalene	360	U	
106-47-8	4-Chloroaniline	360	U	
87-68-3	Hexachlorobutadiene	360	U	
59-50-7	4-Chloro-3-Methylphenol	360	U	
91-57-6	2-Methylnaphthalene	360	U	
77-47-4	Hexachlorocyclopentadiene	360	U	
88-06-2	2,4,6-Trichlorophenol	360	U	
95-95-4	2,4,5-Trichlorophenol	860	U	
91-58-7	2-Chloronaphthalene	360	U	
88-74-4	2-Nitroaniline	860	U	
131-11-3	Dimethyl Phthalate	360	U	
208-96-8	Acenaphthylene	360	U	
606-20-2	2,6-Dinitrotoluene	360	U	
99-09-2	3-Nitroaniline	860	U	
83-32-9	Acenaphthene	360	U	

757

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS53

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-14

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF833

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 8 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	860	U	
100-02-7	4-Nitrophenol	860	U	
132-64-9	Dibenzofuran	360	U	
121-14-2	2,4-Dinitrotoluene	360	U	
84-66-2	Diethylphthalate	360	U	
7005-72-3	4-Chlorophenyl-phenylether	360	U	
86-73-7	Fluorene	360	U	
100-01-6	4-Nitroaniline	860	U	
534-52-1	4,6-Dinitro-2-Methylphenol	860	U	
86-30-6	N-Nitrosodiphenylamine (1)	360	U	
101-55-3	4-Bromophenyl-phenylether	360	U	
118-74-1	Hexachlorobenzene	360	U	
87-86-5	Pentachlorophenol	860	U	
85-01-8	Phenanthrene	360	U	
120-12-7	Anthracene	360	U	
84-74-2	Di-n-Butylphthalate	360	U	
206-44-0	Fluoranthene	360	U	
86-74-8	Carbazole	360	U	
129-00-0	Pyrene	360	U	
85-68-7	Butylbenzylphthalate	360	U	
91-94-1	3,3'-Dichlorobenzidine	360	U	
56-55-3	Benzo(a)Anthracene	360	U	
218-01-9	Chrysene	360	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	110	J	B
117-84-0	Di-n-Octyl Phthalate	360	U	
205-99-2	Benzo(b)Fluoranthene	360	U	
207-08-9	Benzo(k)Fluoranthene	360	U	
50-32-8	Benzo(a)Pyrene	360	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U	
53-70-3	Dibenzo(a,h)Anthracene	360	U	
191-24-2	Benzo(g,h,i)Perylene	360	U	

(1) - Cannot be separated from Diphenylamine

BM 2/14

758

Review: M2 Level

Location: S - 7

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS54

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-15

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF832

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	360	U	
111-44-4	bis(2-Chloroethyl)Ether	360	U	
95-57-8	2-Chlorophenol	360	U	
541-73-1	1,3-Dichlorobenzene	360	U	
106-46-7	1,4-Dichlorobenzene	360	U	
95-50-1	1,2-Dichlorobenzene	360	U	
95-48-7	2-Methylphenol	360	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U	
106-44-5	4-Methylphenol	360	U	
621-64-7	N-Nitroso-Di-n-Propylamine	360	U	
67-72-1	Hexachloroethane	360	U	
98-95-3	Nitrobenzene	360	U	
78-59-1	Isophorone	360	U	
88-75-5	2-Nitrophenol	360	U	
105-67-9	2,4-Dimethylphenol	360	U	
111-91-1	bis(2-Chloroethoxy)Methane	360	U	
120-83-2	2,4-Dichlorophenol	360	U	
120-82-1	1,2,4-Trichlorobenzene	360	U	
91-20-3	Naphthalene	360	U	
106-47-8	4-Chloroaniline	360	U	
87-68-3	Hexachlorobutadiene	360	U	
59-50-7	4-Chloro-3-Methylphenol	360	U	
91-57-6	2-Methylnaphthalene	360	U	
77-47-4	Hexachlorocyclopentadiene	360	U	
88-06-2	2,4,6-Trichlorophenol	360	U	
95-95-4	2,4,5-Trichlorophenol	870	U	
91-58-7	2-Chloronaphthalene	360	U	
88-74-4	2-Nitroaniline	870	U	
131-11-3	Dimethyl Phthalate	360	U	
208-96-8	Acenaphthylene	360	U	
606-20-2	2,6-Dinitrotoluene	360	U	
99-09-2	3-Nitroaniline	870	U	
83-32-9	Acenaphthene	360	U	

FORM I SV-1 3/90

QV = QUALIFIER AFTER VALIDATION

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS54

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-15

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF832

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	870	U	
100-02-7	4-Nitrophenol	870	U	
132-64-9	Dibenzofuran	360	U	
121-14-2	2,4-Dinitrotoluene	360	U	
84-66-2	Diethylphthalate	360	U	
7005-72-3	4-Chlorophenyl-phenylether	360	U	
86-73-7	Fluorene	360	U	
100-01-6	4-Nitroaniline	870	U	
534-52-1	4,6-Dinitro-2-Methylphenol	870	U	
86-30-6	N-Nitrosodiphenylamine (1)	360	U	
101-55-3	4-Bromophenyl-phenylether	360	U	
118-74-1	Hexachlorobenzene	360	U	
87-86-5	Pentachlorophenol	870	U	
85-01-8	Phenanthrene	360	U	
120-12-7	Anthracene	360	U	
84-74-2	Di-n-Butylphthalate	360	U	
206-44-0	Fluoranthene	42	J	J
86-74-8	Carbazole	360	U	
129-00-0	Pyrene	53	J	J
85-68-7	Butylbenzylphthalate	360	U	
91-94-1	3,3'-Dichlorobenzidine	360	U	
56-55-3	Benzo(a)Anthracene	360	U	
218-01-9	Chrysene	360	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	150	J	B
117-84-0	Di-n-Octyl Phthalate	360	U	
205-99-2	Benzo(b)Fluoranthene	360	U	
207-08-9	Benzo(k)Fluoranthene	360	U	
50-32-8	Benzo(a)Pyrene	360	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U	
53-70-3	Dibenzo(a,h)Anthracene	360	U	
191-24-2	Benzo(g,h,i)Perylene	360	U	

(1) - Cannot be separated from Diphenylamine

BM 2/15/95

Review: M2 Level

Location: S - 8

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS55

DUPLICATE OF CPS53

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-16

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF835

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 4 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	340	U	
111-44-4	bis(2-Chloroethyl)Ether	340	U	
95-57-8	2-Chlorophenol	340	U	
541-73-1	1,3-Dichlorobenzene	340	U	
106-46-7	1,4-Dichlorobenzene	340	U	
95-50-1	1,2-Dichlorobenzene	340	U	
95-48-7	2-Methylphenol	340	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U	
106-44-5	4-Methylphenol	340	U	
621-64-7	N-Nitroso-Di-n-Propylamine	340	U	
67-72-1	Hexachloroethane	340	U	
98-95-3	Nitrobenzene	340	U	
78-59-1	Isophorone	340	U	
88-75-5	2-Nitrophenol	340	U	
105-67-9	2,4-Dimethylphenol	340	U	
111-91-1	bis(2-Chloroethoxy)Methane	340	U	
120-83-2	2,4-Dichlorophenol	340	U	
120-82-1	1,2,4-Trichlorobenzene	340	U	
91-20-3	Naphthalene	340	U	
106-47-8	4-Chloroaniline	340	U	
87-68-3	Hexachlorobutadiene	340	U	
59-50-7	4-Chloro-3-Methylphenol	340	U	
91-57-6	2-Methylnaphthalene	340	U	
77-47-4	Hexachlorocyclopentadiene	340	U	
88-06-2	2,4,6-Trichlorophenol	340	U	
95-95-4	2,4,5-Trichlorophenol	820	U	
91-58-7	2-Chloronaphthalene	340	U	
88-74-4	2-Nitroaniline	820	U	
131-11-3	Dimethyl Phthalate	340	U	
208-96-8	Acenaphthylene	340	U	
606-20-2	2,6-Dinitrotoluene	340	U	
99-09-2	3-Nitroaniline	820	U	
83-32-9	Acenaphthene	340	U	

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS55

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-16

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF835

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 4 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
51-28-5	2,4-Dinitrophenol	820	U	
100-02-7	4-Nitrophenol	820	U	
132-64-9	Dibenzofuran	340	U	
121-14-2	2,4-Dinitrotoluene	340	U	
84-66-2	Diethylphthalate	340	U	
7005-72-3	4-Chlorophenyl-phenylether	340	U	
86-73-7	Fluorene	340	U	
100-01-6	4-Nitroaniline	820	U	
534-52-1	4,6-Dinitro-2-Methylphenol	820	U	
86-30-6	N-Nitrosodiphenylamine (1)	340	U	
101-55-3	4-Bromophenyl-phenylether	340	U	
118-74-1	Hexachlorobenzene	340	U	
87-86-5	Pentachlorophenol	820	U	
85-01-8	Phenanthrene	340	U	
120-12-7	Anthracene	340	U	
84-74-2	Di-n-Butylphthalate	340	U	
206-44-0	Fluoranthene	340	U	
86-74-8	Carbazole	340	U	
129-00-0	Pyrene	340	U	
85-68-7	Butylbenzylphthalate	340	U	
91-94-1	3,3'-Dichlorobenzidine	340	U	
56-55-3	Benzo(a)Anthracene	340	U	
218-01-9	Chrysene	340	U	
117-81-7	bis(2-Ethylhexyl)Phthalate	61	J	B
117-84-0	Di-n-Octyl Phthalate	340	U	
205-99-2	Benzo(b)Fluoranthene	340	U	
207-08-9	Benzo(k)Fluoranthene	340	U	
50-32-8	Benzo(a)Pyrene	340	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	340	U	
53-70-3	Dibenzo(a,h)Anthracene	340	U	
191-24-2	Benzo(g,h,i)Perylene	340	U	

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS35

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/23/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
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	
7421-93-4	Endrin aldehyde	0.10	U	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.050	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: RES -1

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS36

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-20

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/23/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q QV
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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: RES - 2

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS37

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix (soil/water) WATER Lab Sample ID: 941111-21

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/23/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.1 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q	QV
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	
7421-93-4	Endrin aldehyde	0.10	U	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.050	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: RES - 3

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS38

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-22

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/23/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.1 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q QV
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	
7421-93-4	Endrin aldehyde	0.10 U	
5103-71-9	alpha-Chlordane	0.050 U	
5103-74-2	gamma-Chlordane	0.050 U	
8001-35-2	Toxaphene	5.0 U	
12674-11-2	Aroclor-1016	1.0 U	
11104-28-2	Aroclor-1221	2.0 U	
11141-16-5	Aroclor-1232	1.0 U	
53469-21-9	Aroclor-1242	1.0 U	
12672-29-6	Aroclor-1248	1.0 U	
11097-69-1	Aroclor-1254	1.0 U	
11096-82-5	Aroclor-1260	1.0 U	

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: RES - 4

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS39

Lab Name: CERMIC CORP Contract: 68D20021

Lab Code: CERMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-23

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/23/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q QV
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	
7421-93-4	Endrin aldehyde	0.10 U	
5103-71-9	alpha-Chlordane	0.050 U	
5103-74-2	gamma-Chlordane	0.050 U	
8001-35-2	Toxaphene	5.0 U	
12674-11-2	Aroclor-1016	1.0 U	
11104-28-2	Aroclor-1221	2.0 U	
11141-16-5	Aroclor-1232	1.0 U	
53469-21-9	Aroclor-1242	1.0 U	
12672-29-6	Aroclor-1248	1.0 U	
11097-69-1	Aroclor-1254	1.0 U	
11096-82-5	Aroclor-1260	1.0 U	

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: RES - 5

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1/25/95 SM

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS40

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-01

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/27/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: SW-1

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS41

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-02

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/27/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q QV
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	
7421-93-4	Endrin aldehyde	0.10 U	
5103-71-9	alpha-Chlordane	0.050 U	
5103-74-2	gamma-Chlordane	0.050 U	
8001-35-2	Toxaphene	5.0 U	
12674-11-2	Aroclor-1016	1.0 U	
11104-28-2	Aroclor-1221	2.0 U	
11141-16-5	Aroclor-1232	1.0 U	
53469-21-9	Aroclor-1242	1.0 U	
12672-29-6	Aroclor-1248	1.0 U	
11097-69-1	Aroclor-1254	1.0 U	
11096-82-5	Aroclor-1260	1.0 U	

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: SW-2

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS42

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-03

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/27/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.5 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q QV
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	
7421-93-4	Endrin aldehyde	0.10 U	
5103-71-9	alpha-Chlordane	0.050 U	
5103-74-2	gamma-Chlordane	0.050 U	
8001-35-2	Toxaphene	5.0 U	
12674-11-2	Aroclor-1016	1.0 U	
11104-28-2	Aroclor-1221	2.0 U	
11141-16-5	Aroclor-1232	1.0 U	
53469-21-9	Aroclor-1242	1.0 U	
12672-29-6	Aroclor-1248	1.0 U	
11097-69-1	Aroclor-1254	1.0 U	
11096-82-5	Aroclor-1260	1.0 U	

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: SW-3

FORM I PEST

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS43

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-04

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/27/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.4 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q	QV
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	
7421-93-4	Endrin aldehyde	0.10	U	
5103-71-9	alpha-Chlordane	0.050	U	
5103-74-2	gamma-Chlordane	0.050	U	
8001-35-2	Toxaphene	5.0	U	
12674-11-2	Aroclor-1016	1.0	U	
11104-28-2	Aroclor-1221	2.0	U	
11141-16-5	Aroclor-1232	1.0	U	
53469-21-9	Aroclor-1242	1.0	U	
12672-29-6	Aroclor-1248	1.0	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: SW-4

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS56

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-17

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/27/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.5 Sulfur Cleanup: (Y/N) N

Field BLANK

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

CAS NO.	COMPOUND		Q QV
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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Review: M2 Level

QV = QUALIFIER AFTER VALIDATION

Location: B - 1

Review: M2 Level

Location: SED -1

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS44

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-05

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

% Moisture: 21 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/08/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
319-84-6	alpha-BHC	2.1	U	UJ
319-85-7	beta-BHC	2.1	U	
319-86-8	delta-BHC	2.1	U	
58-89-9	gamma-BHC (Lindane)	2.1	U	
76-44-8	Heptachlor	2.1	U	
309-00-2	Aldrin	2.1	U	
1024-57-3	Heptachlor epoxide	2.1	U	
959-98-8	Endosulfan I	2.1	U	
60-57-1	Dieldrin	4.1	U	
72-55-9	4,4'-DDE	4.1	U	
72-20-8	Endrin	4.1	U	
33213-65-9	Endosulfan II	4.1	U	
72-54-8	4,4'-DDD	4.1	U	
1031-07-8	Endosulfan sulfate	4.1	U	
50-29-3	4,4'-DDT	4.1	U	
72-43-5	Methoxychlor	21	U	
53494-70-5	Endrin ketone	4.1	U	
7421-93-4	Endrin aldehyde	4.1	U	
5103-71-9	alpha-Chlordane	2.1	U	
5103-74-2	gamma-Chlordane	2.1	U	
8001-35-2	Toxaphene	210	U	
12674-11-2	Aroclor-1016	41	U	
11104-28-2	Aroclor-1221	84	U	
11141-16-5	Aroclor-1232	41	U	
53469-21-9	Aroclor-1242	41	U	
12672-29-6	Aroclor-1248	41	U	
11097-69-1	Aroclor-1254	41	U	
11096-82-5	Aroclor-1260	41	U	UJ

BM 2/15

QV = QUALIFIER AFTER VALIDATION

FORM I PEST

3/90

Review: M2 Level

Location: SED - 2

1D

ESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS45

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-06

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

% Moisture: 77 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	QV
319-84-6	alpha-BHC	7.3	U		
319-85-7	beta-BHC	7.3	U		
319-86-8	delta-BHC	7.3	U		
58-89-9	gamma-BHC (Lindane)	7.3	U		
76-44-8	Heptachlor	7.3	U		
309-00-2	Aldrin	7.3	U		
1024-57-3	Heptachlor epoxide	7.3	U		
959-98-8	Endosulfan I	7.3	U		
60-57-1	Dieldrin	14	U		
72-55-9	4,4'-DDE	14	U		
72-20-8	Endrin	14	U		
33213-65-9	Endosulfan II	14	U		
72-54-8	4,4'-DDD	14	U		
1031-07-8	Endosulfan sulfate	14	U		
50-29-3	4,4'-DDT	14	U		
72-43-5	Methoxychlor	73	U		
53494-70-5	Endrin ketone	14	U		
7421-93-4	Endrin aldehyde	14	U		
5103-71-9	alpha-Chlordane	7.3	U		
5103-74-2	gamma-Chlordane	7.3	U		
8001-35-2	Toxaphene	730	U		
12674-11-2	Aroclor-1016	140	U		
11104-28-2	Aroclor-1221	290	U		
11141-16-5	Aroclor-1232	140	U		
53469-21-9	Aroclor-1242	140	U		
12672-29-6	Aroclor-1248	140	U		
11097-69-1	Aroclor-1254	140	J	J	
11096-82-5	Aroclor-1260	140	U		

QV = QUALIFIER AFTER VALIDATION

9

Review: M2 Level

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Location: SED - 3

CPS46

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-07

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

% Moisture: 21 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
319-84-6	alpha-BHC	2.1	U	
319-85-7	beta-BHC	2.1	U	
319-86-8	delta-BHC	2.1	U	
58-89-9	gamma-BHC (Lindane)	2.1	U	
76-44-8	Heptachlor	2.1	U	
309-00-2	Aldrin	2.1	U	
1024-57-3	Heptachlor epoxide	2.1	U	
959-98-8	Endosulfan I	2.1	U	
60-57-1	Dieldrin	4.1	U	
72-55-9	4,4'-DDE	4.1	U	
72-20-8	Endrin	4.1	U	
33213-65-9	Endosulfan II	4.1	U	
72-54-8	4,4'-DDD	4.1	U	
1031-07-8	Endosulfan sulfate	4.1	U	
50-29-3	4,4'-DDT	4.1	U	
72-43-5	Methoxychlor	21	U	
53494-70-5	Endrin ketone	4.1	U	
7421-93-4	Endrin aldehyde	4.1	U	
5103-71-9	alpha-Chlordane	2.1	U	
5103-74-2	gamma-Chlordane	2.1	U	
8001-35-2	Toxaphene	210	U	
12674-11-2	Aroclor-1016	41	U	
11104-28-2	Aroclor-1221	84	U	
11141-16-5	Aroclor-1232	41	U	
53469-21-9	Aroclor-1242	41	U	
12672-29-6	Aroclor-1248	41	U	
11097-69-1	Aroclor-1254	41	U	
11096-82-5	Aroclor-1260	45	P	J

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

Location: SED - 4

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS47

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-08

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

% Moisture: 19 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
319-84-6	alpha-BHC	2.1	U	
319-85-7	beta-BHC	2.1	U	
319-86-8	delta-BHC	2.1	U	
58-89-9	gamma-BHC (Lindane)	2.1	U	
76-44-8	Heptachlor	2.1	U	
309-00-2	Aldrin	2.1	U	
1024-57-3	Heptachlor epoxide	2.1	U	
959-98-8	Endosulfan I	2.1	U	
60-57-1	Dieldrin	4.0	U	
72-55-9	4,4'-DDE	4.0	U	
72-20-8	Endrin	4.0	U	
33213-65-9	Endosulfan II	4.0	U	
72-54-8	4,4'-DDD	4.0	U	
1031-07-8	Endosulfan sulfate	4.0	U	
50-29-3	4,4'-DDT	4.0	U	
72-43-5	Methoxychlor	21	U	
53494-70-5	Endrin ketone	4.0	U	
7421-93-4	Endrin aldehyde	4.0	U	
5103-71-9	alpha-Chlordane	2.1	U	
5103-74-2	gamma-Chlordane	2.1	U	
8001-35-2	Toxaphene	210	U	
12674-11-2	Aroclor-1016	40	U	
11104-28-2	Aroclor-1221	82	U	
11141-16-5	Aroclor-1232	40	U	
53469-21-9	Aroclor-1242	40	U	
12672-29-6	Aroclor-1248	40	U	
11097-69-1	Aroclor-1254	40	U	
11096-82-5	Aroclor-1260	40	U	

QV = QUALIFIER AFTER VALIDATION

1013

Review: M2 Level

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ocation: S - 1

CPS48

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-09

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

% Moisture: 17 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
319-84-6	alpha-BHC	2.0	U	
319-85-7	beta-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
76-44-8	Heptachlor	2.0	U	
309-00-2	Aldrin	2.0	U	
1024-57-3	Heptachlor epoxide	2.0	U	
959-98-8	Endosulfan I	2.0	U	
60-57-1	Dieldrin	3.9	U	
72-55-9	4,4'-DDE	8.8		
72-20-8	Endrin	3.9	U	
33213-65-9	Endosulfan II	3.9	U	
72-54-8	4,4'-DDD	7.8	P	J
1031-07-8	Endosulfan sulfate	3.9	U	
50-29-3	4,4'-DDT	30		
72-43-5	Methoxychlor	20	U	
53494-70-5	Endrin ketone	3.9	U	
7421-93-4	Endrin aldehyde	3.9	U	
5103-71-9	alpha-Chlordane	2.3	P	J
5103-74-2	gamma-Chlordane	2.0	U	
8001-35-2	Toxaphene	200	U	
12674-11-2	Aroclor-1016	39	U	
11104-28-2	Aroclor-1221	80	U	
11141-16-5	Aroclor-1232	39	U	
53469-21-9	Aroclor-1242	39	U	
12672-29-6	Aroclor-1248	39	U	
11097-69-1	Aroclor-1254	39	U	
11096-82-5	Aroclor-1260	35	PJ	J

QV = QUALIFIER AFTER VALIDATION

1018

FORM I PEST 3/90

Review: M2 Level

Location: S-2

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS49

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-10

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

% Moisture: 31 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q	QV
319-84-6	alpha-BHC	2.5	U	UL
319-85-7	beta-BHC	2.5	U	
319-86-8	delta-BHC	2.5	U	
58-89-9	gamma-BHC (Lindane)	2.5	U	
76-44-8	Heptachlor	2.5	U	
309-00-2	Aldrin	2.5	U	
1024-57-3	Heptachlor epoxide	2.5	U	
959-98-8	Endosulfan I	2.5	U	
60-57-1	Dieldrin	4.8	U	
72-55-9	4,4'-DDE	4.8	U	
72-20-8	Endrin	4.8	U	
33213-65-9	Endosulfan II	4.8	U	
72-54-8	4,4'-DDD	4.8	U	
1031-07-8	Endosulfan sulfate	4.8	U	
50-29-3	4,4'-DDT	4.8	U	
72-43-5	Methoxychlor	25	U	
53494-70-5	Endrin ketone	4.8	U	
7421-93-4	Endrin aldehyde	4.8	U	
5103-71-9	alpha-Chlordane	2.5	U	
5103-74-2	gamma-Chlordane	2.5	U	
8001-35-2	Toxaphene	250	U	
12674-11-2	Aroclor-1016	48	U	
11104-28-2	Aroclor-1221	97	U	
11141-16-5	Aroclor-1232	48	U	
53469-21-9	Aroclor-1242	48	U	
12672-29-6	Aroclor-1248	48	U	
11097-69-1	Aroclor-1254	48	U	
11096-82-5	Aroclor-1260	48	U	UL

QV = QUALIFIER AFTER VALIDATION

FORM I PEST

Review: M2 Level

Location: S - 3

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS50

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-11

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

% Moisture: 21 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q QV
319-84-6	alpha-BHC	2.1	U	
319-85-7	beta-BHC	2.1	U	
319-86-8	delta-BHC	2.1	U	
58-89-9	gamma-BHC (Lindane)	2.1	U	
76-44-8	Heptachlor	2.1	U	
309-00-2	Aldrin	2.1	U	
1024-57-3	Heptachlor epoxide	2.1	U	
959-98-8	Endosulfan I	2.1	U	
60-57-1	Dieldrin	4.1	U	
72-55-9	4,4'-DDE	4.1	U	
72-20-8	Endrin	4.1	U	
33213-65-9	Endosulfan II	4.1	U	
72-54-8	4,4'-DDD	4.1	U	
1031-07-8	Endosulfan sulfate	4.1	U	
50-29-3	4,4'-DDT	4.1	U	
72-43-5	Methoxychlor	21	U	
53494-70-5	Endrin ketone	4.1	U	
7421-93-4	Endrin aldehyde	4.1	U	
5103-71-9	alpha-Chlordane	2.1	U	
5103-74-2	gamma-Chlordane	2.1	U	
8001-35-2	Toxaphene	210	U	
12674-11-2	Aroclor-1016	41	U	
11104-28-2	Aroclor-1221	84	U	
11141-16-5	Aroclor-1232	41	U	
53469-21-9	Aroclor-1242	41	U	
12672-29-6	Aroclor-1248	41	U	
11097-69-1	Aroclor-1254	41	U	
11096-82-5	Aroclor-1260	41	U	

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

1D

Location: S - 4 PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS51

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12

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

% Moisture: 18 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
319-84-6	alpha-BHC	2.1	U	
319-85-7	beta-BHC	2.1	U	
319-86-8	delta-BHC	2.1	U	
58-89-9	gamma-BHC (Lindane)	2.1	U	
76-44-8	Heptachlor	2.1	U	
309-00-2	Aldrin	2.1	U	
1024-57-3	Heptachlor epoxide	2.1	U	
959-98-8	Endosulfan I	2.1	U	
60-57-1	Dieldrin	4.0	U	
72-55-9	4,4'-DDE	4.0	U	
72-20-8	Endrin	4.0	U	
33213-65-9	Endosulfan II	4.0	U	
72-54-8	4,4'-DDD	4.0	U	
1031-07-8	Endosulfan sulfate	4.0	U	
50-29-3	4,4'-DDT	4.0	U	
72-43-5	Methoxychlor	21	U	
53494-70-5	Endrin ketone	4.0	U	
7421-93-4	Endrin aldehyde	4.0	U	
5103-71-9	alpha-Chlordane	2.1	U	
5103-74-2	gamma-Chlordane	2.1	U	
8001-35-2	Toxaphene	210	U	
12674-11-2	Aroclor-1016	40	U	
11104-28-2	Aroclor-1221	81	U	
11141-16-5	Aroclor-1232	40	U	
53469-21-9	Aroclor-1242	40	U	
12672-29-6	Aroclor-1248	40	U	
11097-69-1	Aroclor-1254	40	U	
11096-82-5	Aroclor-1260	40	U	

QV = QUALIFIER AFTER VALIDATION

Review: M2 Level

ocation: S - 5

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS52

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-13

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

% Moisture: 7 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q QV
319-84-6	alpha-BHC	1.8 U	ul
319-85-7	beta-BHC	1.8 U	
319-86-8	delta-BHC	1.8 U	
58-89-9	gamma-BHC (Lindane)	1.8 U	
76-44-8	Heptachlor	1.8 U	
309-00-2	Aldrin	1.8 U	
1024-57-3	Heptachlor epoxide	1.8 U	
959-98-8	Endosulfan I	1.8 U	
60-57-1	Dieldrin	3.5 U	
72-55-9	4,4'-DDE	3.5 U	
72-20-8	Endrin	3.5 U	
33213-65-9	Endosulfan II	3.5 U	
72-54-8	4,4'-DDD	3.5 U	
1031-07-8	Endosulfan sulfate	3.5 U	
50-29-3	4,4'-DDT	3.5 U	
72-43-5	Methoxychlor	18 U	
53494-70-5	Endrin ketone	3.5 U	
7421-93-4	Endrin aldehyde	3.5 U	
5103-71-9	alpha-Chlordane	1.8 U	
5103-74-2	gamma-Chlordane	1.8 U	
8001-35-2	Toxaphene	180 U	
12674-11-2	Aroclor-1016	35 U	
11104-28-2	Aroclor-1221	72 U	
11141-16-5	Aroclor-1232	35 U	
53469-21-9	Aroclor-1242	35 U	
12672-29-6	Aroclor-1248	35 U	
11097-69-1	Aroclor-1254	35 U	
11096-82-5	Aroclor-1260	35 U	ul

QV = QUALIFIER AFTER VALIDATION

10.16

Review: M2 Level

1D DUPLICATE OF CPS55

Location: S - 6

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS53

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-14

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

% Moisture: 8 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
319-84-6	alpha-BHC	1.8	U	
319-85-7	beta-BHC	1.8	U	
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
76-44-8	Heptachlor	1.8	U	
309-00-2	Aldrin	1.8	U	
1024-57-3	Heptachlor epoxide	1.8	U	
959-98-8	Endosulfan I	1.8	U	
60-57-1	Dieldrin	3.6	U	
72-55-9	4,4'-DDE	3.6	U	
72-20-8	Endrin	3.6	U	
33213-65-9	Endosulfan II	3.6	U	
72-54-8	4,4'-DDD	3.6	U	
1031-07-8	Endosulfan sulfate	3.6	U	
50-29-3	4,4'-DDT	3.6	U	
72-43-5	Methoxychlor	18	U	
53494-70-5	Endrin ketone	3.6	U	
7421-93-4	Endrin aldehyde	3.6	U	
5103-71-9	alpha-Chlordane	1.8	U	
5103-74-2	gamma-Chlordane	1.8	U	
8001-35-2	Toxaphene	180	U	
12674-11-2	Aroclor-1016	36	U	
11104-28-2	Aroclor-1221	73	U	
11141-16-5	Aroclor-1232	36	U	
53469-21-9	Aroclor-1242	36	U	
12672-29-6	Aroclor-1248	36	U	
11097-69-1	Aroclor-1254	36	U	
11096-82-5	Aroclor-1260	36	U	

QV = QUALIFIER AFTER VALIDATION

FORM I PEST 3/90

Review: M2 Level

1D

ocation: S - 7 PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS54

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-15

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

% Moisture: 9 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q QV
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	73	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

QV = QUALIFIER AFTER VALIDATION

1056

Review: M2 Level

1D DUPLICATE OF CPS53

Location: S - 8

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS55

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-16

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

% Moisture: 4 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/10/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
319-84-6	alpha-BHC	1.8	U	
319-85-7	beta-BHC	1.8	U	
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
76-44-8	Heptachlor	1.8	U	
309-00-2	Aldrin	1.8	U	
1024-57-3	Heptachlor epoxide	1.8	U	
959-98-8	Endosulfan I	1.8	U	
60-57-1	Dieldrin	3.4	U	
72-55-9	4,4'-DDE	3.4	U	
72-20-8	Endrin	3.4	U	
33213-65-9	Endosulfan II	3.4	U	
72-54-8	4,4'-DDD	3.4	U	
1031-07-8	Endosulfan sulfate	3.4	U	
50-29-3	4,4'-DDT	3.4	U	
72-43-5	Methoxychlor	18	U	
53494-70-5	Endrin ketone	3.4	U	
7421-93-4	Endrin aldehyde	3.4	U	
5103-71-9	alpha-Chlordane	1.8	U	
5103-74-2	gamma-Chlordane	1.8	U	
8001-35-2	Toxaphene	180	U	
12674-11-2	Aroclor-1016	34	U	
11104-28-2	Aroclor-1221	69	U	
11141-16-5	Aroclor-1232	34	U	
53469-21-9	Aroclor-1242	34	U	
12672-29-6	Aroclor-1248	34	U	
11097-69-1	Aroclor-1254	34	U	
11096-82-5	Aroclor-1260	34	U	

QV = QUALIFIER AFTER VALIDATION

Appendix C

Reviewed and Corrected
Tentatively Identified Compounds

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: CPS34

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-18

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ933

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS35

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ934

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE No.

CPS36

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-20

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ906

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS37

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-21

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ907

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS38

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-22

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ908

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS39

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-23

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ909

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS40

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ928

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS41

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ929

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

ORIGINAL (Red)

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: CPS42

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ930

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS43

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-04

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ931

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS56

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-17

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ932

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS44

Lab Name: CEIMIC CORP Contract: 63-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG480

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 33 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS45

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ884

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 79 Date Analyzed: 12/27/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aliphatic hydrocarbon	17.81	1400	J
2.	Aliphatic hydrocarbon	18.36	810	J
3.	Cyclohexane isomer	18.85	860	J
4.	Aliphatic hydrocarbon	19.26	1000	J
5. 1120214	Undecane	20.04	230	JN
6.	Aliphatic hydrocarbon	20.41	460	J
7.	Aliphatic hydrocarbon	20.67	460	J
8.	Unknown	20.87	380	J
9.	Aliphatic hydrocarbon	21.24	2000	J
10.	Aliphatic hydrocarbon	21.54	520	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS46

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG511

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 25 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS47

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG512

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 32 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS48

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG542

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 20 Date Analyzed: 12/27/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	12.88	8	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS48RE

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-09RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG558

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 20 Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	12.91	6	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS49

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG559

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 40 Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	12.92	18	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS49RE

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-10RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG564

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 40 Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	12.90	17	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS50

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG513

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 8 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS51

Lab Name: CEIMIC CORP Contract: 63-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG514

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 15 Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS52

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ851

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 13 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.93	33	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS53

Lab Name: CEIMIC CORP Contract: 63-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ852

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 7 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.96	16	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS54

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ853

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 13 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS55

Lab Name: CEIMIC CORP Contract: 63-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ854

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 6 Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS35

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF803

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.58~~	~~6~~	~~JNA~~

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EPA SAMPLE NO.

CPS26

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CEIMIC CORP Contract: 68-D0-0021

Lab Code: CEIMIC Case No.: 22084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-20

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF820

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS37

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-21

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF821

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.59~~	~~7~~	~~JNA~~

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS38

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-22

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF822

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.1

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 123422~~	~~2 Pentanone, 4 hydroxy 4 met~~	~~5.60~~	~~6~~	~~JNA~~
2. 791286	Phosphine oxide, triphenyl-	30.63	3	JN

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS39

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-23

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF823

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.9

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.52	2	J
~~2. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.57~~	~~2~~	~~JNA~~

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS40

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB699

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	5.41	62	J
2.	Unknown	5.95	65	J
~~3. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.28~~	~~2~~	~~JNA~~
4.	Unknown	22.41	2	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS41

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB700

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	5.40	47	J
2.	Unknown	5.93	47	J
~~3. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.27~~	~~3~~	~~JNA~~

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS42

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB735

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.5

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	5.43	40	J
2.	Unknown	5.96	36	J
~~3. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.31~~	~~5~~	~~JNA~~
4.	Unknown	23.62	2	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS43

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB702

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/11/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.4

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	5.41	42	J
2.	Unknown	5.92	42	J
~~3. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.26~~	~~20~~	~~JNA~~

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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CPS56

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-17

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF819

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

Number TICs Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS44

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-05

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF847

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.44	9600	J
2.	Unknown	4.58	3100	J
3.	Unknown	5.13	1200	J
~~4. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.75~~	~~110000~~	~~BJNA~~
5.	Unknown	6.15	840	J
6.	Unknown	7.23	3300	J
7.	Unknown	7.29	3400	J
8.	Unknown	7.35	580	J
~~9.~~	~~Unknown~~	~~7.64~~	~~420~~	~~J~~
~~10.~~	~~Unknown~~	~~8.09~~	~~540~~	~~J~~
11. 544638	Tetradecanoic acid	22.96	84	JN
12. 68797955	(Z)6-Pentadecen-1-ol	24.40	130	JN
13.	Unknown	24.67	130	J
14.	Unknown	24.74	130	J
15. 2091294	9-Hexadecenoic acid	25.30	1500	JN
16. 57103	Hexadecanoic acid	25.50	540	JN
17.	Unknown	26.35	130	J
18.	Unknown	27.06	84	J
19.	Aliphatic hydrocarbon	31.57	130	J
20.	Aliphatic hydrocarbon	33.05	250	J
21.	Unknown	34.37	250	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS45

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-06

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF848

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 77 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

mber TICs found: 22 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.50	53000	J
2.	Unknown	4.64	12000	J
3.	Unknown	5.17	17000	J
~~4. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.65~~	~~200000~~	~~BJNA~~
5.	Aliphatic hydrocarbon	17.38	3000	J
6.	Aliphatic hydrocarbon	18.38	3300	J
7.	Aliphatic hydrocarbon	19.06	5000	J
8.	Unknown fatty acid	19.49	3000	J
9.	Unknown fatty acid	20.07	4000	J
10.	Aliphatic hydrocarbon	22.16	10000	J
11.	Unknown alicyclic compound	24.17	4000	J
2.	Unknown alcohal	24.62	8400	J
13.	Aliphatic hydrocarbon	24.82	4000	J
14.	Unknown	25.32	5700	J
15. 57103	Hexadecanoic acid	25.52	3000	JN
16.	Aliphatic hydrocarbon	25.93	3400	J
17.	Unknown	31.53	1700	J
18.	Unknown	31.80	2600	J
19.	Unknown	32.07	2000	J
20.	Unknown	32.81	1300	J
21.	Unknown fatty ester	33.66	2100	J
22.	Aliphatic hydrocarbon	34.99	1400	J

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TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS46

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-07

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AF851

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/15/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.49	18000	J
2.	Unknown	5.16	2700	J
~~3. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.86~~	~~120000~~	~~BJNA~~
4. 2313657	2-Hexanol, 3-methyl-	6.24	710	JN
5.	Unknown C6H12 isomer	7.00	170	J
6.	Unknown	7.25	1300	J
7.	Unknown	7.31	3400	J
~~8.~~	~~Unknown~~	~~7.64~~	~~290~~	~~J~~
~~9.~~	~~Unknown~~	~~7.76~~	~~250~~	~~J~~
~~10.~~	~~Unknown~~	~~8.05~~	~~790~~	~~J~~
11.	Unknown	8.39	210	J
12.	Unknown	8.62	330	J
13.	Aliphatic hydrocarbon	20.64	170	J
14.	Aliphatic hydrocarbon	22.14	420	J
15.	Unknown	24.74	120	J
16.	Aliphatic hydrocarbon	24.81	120	J
17.	Unknown	25.26	250	J
18.	Aliphatic hydrocarbon	25.92	120	J
19.	Unknown	26.62	83	J
20.	Aliphatic hydrocarbon	34.95	670	J
21.	Unknown	35.97	210	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS47

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-08

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF824

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.61	6500	J
2.	Unknown	5.05	3600	J
~~3. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.99~~	~~77000~~	~~BJNA~~
~~4.~~	~~Unknown~~	~~6.46~~	~~610~~	~~J~~
~~5.~~	~~Unknown~~	~~6.64~~	~~200~~	~~J~~
~~6.~~	~~Unknown~~	~~7.47~~	~~5700~~	~~J~~
~~7.~~	~~Unknown~~	~~7.56~~	~~280~~	~~J~~
~~8.~~	~~Unknown~~	~~7.79~~	~~360~~	~~J~~
~~9. 4291796~~	~~Unknown aromaticyclohexane,1~~	~~8.23~~	~~610~~	~~BJN~~
10.	Unknown	8.44	320	J
~~11.~~	~~Unknown~~	~~12.38~~	~~200~~	~~J~~
12.	Aliphatic hydrocarbon	22.27	81	J
13. 2091294	9-Hexadecenoic acid	25.38	120	JN
14. 57103	Hexadecanoic acid	25.58	120	JN
15.	Aliphatic hydrocarbon	31.69	120	J
16.	Aliphatic hydrocarbon	33.20	200	J
17.	Aliphatic hydrocarbon	35.16	240	J
18.	Unknown	37.88	120	J
19.	Unknown	38.46	81	J
20.	Unknown	39.35	240	J
21.	Unknown	39.62	120	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS48

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-09

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF834

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.59	680	J
~~2.~~	~~Unknown~~	~~4.82~~	~~990~~	~~J~~
3.	Unknown	5.25	3300	J
~~4. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.07~~	~~68000~~	~~BJNA~~
~~5.~~	~~Unknown~~	~~6.52~~	~~680~~	~~J~~
~~6.~~	~~Unknown~~	~~7.48~~	~~3700~~	~~J~~
~~7.~~	~~Unknown~~	~~7.77~~	~~360~~	~~J~~
~~8.~~	~~Unknown~~	~~8.17~~	~~760~~	~~J~~
9. 2091294	9-Hexadecenoic acid	25.47	360	JN
10. 57103	Hexadecanoic acid	25.58	440	JN
11.	Unknown	30.75	160	J
12.	Aliphatic hydrocarbon	31.65	440	J
13.	Unknown	34.52	560	J
14.	Aliphatic hydrocarbon	35.12	950	J
15.	Unknown	35.23	830	J
16.	Unknown	37.02	600	J
17.	Unknown steroid	37.48	480	J
18.	Unknown	38.03	320	J
19.	Unknown steroid	38.43	800	J
20.	Unknown	39.31	800	J
21.	Unknown	39.56	480	J
22.	Unknown	40.81	1200	J

BM 2/13/95

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS49

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-10

Sample wt/vol: 30.1 (g/mL) G Lab File ID: AF885

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 31 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/17/95

Injection Volume: 2.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 123422~~	~~2 Pentanone, 4 hydroxy 4 met~~	~~5.52~~	~~280000~~	~~BJNA~~
2.	Unknown	30.84	39000	J

BM 2/13/95

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS50

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JB848

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 21 decanted: (Y/N) N Date Extracted: 01/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/19/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.66	250	J
2.	Unknown	4.79	1200	J
~~3. 141797~~	~~3-Penten-2-one, 4-methyl~~	~~5.49~~	~~550~~	~~BJNA~~
~~4. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.49~~	~~80000~~	~~BJNA~~
~~5.~~	~~Unknown~~	~~6.80~~	~~300~~	~~J~~
~~6.~~	~~Unknown~~	~~7.56~~	~~550~~	~~J~~
~~7.~~	~~Unknown~~	~~7.81~~	~~210~~	~~J~~
8.	C4-cyclohexane isomer	8.10	420	J
9.	Aliphatic hydrocarbon	12.62	130	J
10.	Aliphatic hydrocarbon	12.97	84	J
11.	Aliphatic hydrocarbon	14.78	300	J
12.	Unknown	15.09	130	J
13.	Aliphatic hydrocarbon	16.23	130	J
14. 1461229	Stannane, tributylchoro	16.62	3200	JN
15.	Aliphatic hydrocarbon	17.19	720	J
16.	Aliphatic hydrocarbon	17.62	460	J
17.	Unknown	18.17	170	J
18. 57103	Hexadecanoic acid	19.33	890	JN
19.	Unknown	20.46	130	J
20.	Unknown fatty acid	20.53	210	J
21.	Unknown	21.19	380	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS51

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12

Sample wt/vol: 30.2 (g/mL) G Lab File ID: AF836

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

ber TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.58	6900	J
~~2. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~5.93~~	~~77000~~	~~BJNA~~
~~3. 000000~~	~~Unknown~~	~~6.44~~	~~650~~	~~BJN~~
4.	Unknown	7.37	1500	J
~~5.~~	~~Unknown~~	~~7.43~~	~~1900~~	~~J~~
6.	C4-cyclohexane isomer	8.20	520	J
7.	Phenanthrene, methyl isomer	25.13	200	J
8.	Anthracene, methyl isomer	25.34	320	J
9.	Unknown fatty acid	25.44	280	J
10. 57103	Hexadecanoic acid	25.57	200	JN
11.	Aliphatic hydrocarbon	28.75	120	J
[illegible]	Aliphatic hydrocarbon	31.66	200	J
13.	Aliphatic hydrocarbon	33.18	1800	J
14.	Aliphatic hydrocarbon	35.13	1800	J
15.	Unknown alcohal	35.22	730	J
16.	Unknown	35.70	520	J
17.	Unknown	36.36	320	J
18.	Unknown steroid	38.42	1400	J
19.	Unknown	38.84	320	J
20.	Unknown	39.29	280	J
21.	Unknown	39.91	280	J
22.	Unknown	40.77	610	J

[illegible] 2/13/95

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS52

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-13

Sample wt/vol: 30.4 (g/mL) G Lab File ID: AF831

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 7 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 638040	Cyclohexane, 1,3-dimethyl-,	4.30	110	JN
2.	C7H14 isomer	4.64	460	J
3.	Unknown	4.73	110	J
4.	Unknown	5.41	2300	J
~~5. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.18~~	~~67000~~	~~BJNA~~ BM 2/13/95
~~6.~~	~~Unknown~~	~~6.59~~	~~600~~	~~J~~
7.	C6H14O isomer	6.90	71	J
8.	Unknown	6.96	110	J
~~9.~~	~~Unknown~~	~~7.49~~	~~1900~~	~~J~~
~~10.~~	~~Unknown~~	~~7.78~~	~~420~~	~~J~~
~~11.~~	~~Unknown~~	~~7.94~~	~~140~~	~~J~~
12.	C10H20 alicyclic isomer	8.23	530	J
~~13.~~	~~Unknown~~	~~12.36~~	~~71~~	~~J~~
14.	Unknown	24.84	140	J
15.	Aliphatic hydrocarbon	33.16	110	J
16.	Aliphatic hydrocarbon	35.11	250	J
17.	Unknown	35.72	180	J
18.	Aliphatic hydrocarbon	37.81	140	J
19.	Unknown steroid	38.45	140	J
20.	Unknown	39.52	110	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS53

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-14

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF833

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 8 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

ıber TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~Cyclohexane, dimethyl isomer~~	~~4.26~~	~~140~~	~~J~~
2.	C5H8O isomer	4.33	110	J
~~3. 141797~~	~~3-Penten-2-one, 4-methyl~~	~~4.61~~	~~680~~	~~BJNA~~
4.	Unknown	5.37	1400	J
~~5. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.13~~	~~65000~~	~~BJNA~~
~~6.~~	~~Unknown~~	~~6.47~~	~~750~~	~~J~~
~~7.~~	~~Unknown~~	~~6.84~~	~~110~~	~~J~~
~~8.~~	~~Unknown~~	~~6.94~~	~~72~~	~~J~~
9.	Unknown	7.13	72	J
~~10.~~	~~Unknown~~	~~7.48~~	~~1100~~	~~J~~
~~11.~~	~~Unknown~~	~~7.69~~	~~140~~	~~J~~
~~12.~~	~~Unknown~~	~~7.77~~	~~360~~	~~J~~
~~13.~~	~~Unknown~~	~~7.91~~	~~220~~	~~J~~
~~14.~~	~~Unknown~~	~~8.04~~	~~72~~	~~J~~
~~15. 4291796~~	~~Cyclohexane, 1-methyl-2-prop~~	~~8.21~~	~~570~~	~~BJN~~
~~16.~~	~~Unknown~~	~~12.33~~	~~72~~	~~J~~
~~17.~~	~~Unknown~~	~~12.53~~	~~140~~	~~J~~

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS54

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-15

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF832

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~Cyclohexane, dimethyl isomer~~	~~4.21~~	~~110~~	~~J~~
2.	C7H14 isomer	4.56	1000	J
~~3.~~	~~Unknown~~	~~4.90~~	~~110~~	~~J~~
4.	Unknown	5.12	2300	J
~~5. 123422~~	~~2-Pentanone, 4 hydroxy 4 met~~	~~6.00~~	~~69000~~	~~BJNA~~
~~6.~~	~~Unknown~~	~~6.44~~	~~580~~	~~J~~
7.	Unknown	7.13	110	J
~~8.~~	~~Unknown~~	~~7.38~~	~~830~~	~~J~~
~~9.~~	~~Unknown~~	~~7.44~~	~~2100~~	~~J~~
~~10.~~	~~Unknown~~	~~7.67~~	~~110~~	~~J~~
~~11.~~	~~Unknown~~	~~7.76~~	~~330~~	~~J~~
~~12.~~	~~Unknown~~	~~7.88~~	~~150~~	~~J~~
13.	C4-cyclohexane isomer-2-prop	8.20	540	J
14.	Unknown	8.70	110	J
~~15.~~	~~Unknown~~	~~12.35~~	~~180~~	~~J~~
~~16.~~	~~Unknown~~	~~25.55~~	~~110~~	~~J~~
17.	Unknown	28.39	510	J
18.	Aliphatic hydrocarbon	35.12	620	J
19.	Unknown	37.49	180	J
20.	Unknown	37.72	360	J
21.	Unknown	39.95	1100	J
22.	Unknown	40.45	150	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CPS55

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-16

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF835

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 4 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

ber TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~Cyclohexane, dimethyl isomer~~	~~4.25~~	~~140~~	~~J~~
~~2. 141797~~	~~3 Penten 2 one, 4 methyl~~	~~4.60~~	~~310~~	~~BJNA~~
3.	Unknown	4.68	69	J
~~4.~~	~~Unknown~~	~~4.92~~	~~140~~	~~J~~
5.	Unknown	5.52	520	J
~~6. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.19~~	~~58000~~	~~BJNA~~
~~7.~~	~~Unknown~~	~~6.51~~	~~270~~	~~J~~
~~8.~~	~~Unknown~~	~~6.85~~	~~100~~	~~J~~
~~9.~~	~~Unknown~~	~~7.49~~	~~720~~	~~J~~
~~10.~~	~~Unknown~~	~~7.69~~	~~100~~	~~J~~
~~11.~~	~~Unknown~~	~~7.77~~	~~310~~	~~J~~
~~12.~~	~~Unknown~~	~~7.92~~	~~240~~	~~J~~
~~13.~~	~~C4 Cyclohexane isomer~~	~~8.21~~	~~450~~	~~J~~
~~14.~~	~~Unknown~~	~~12.53~~	~~170~~	~~J~~
15.	Unknown	14.91	100	J
16.	Unknown fatty acid	27.54	69	J
17.	Unknown	28.53	100	J
18.	Unknown	29.96	580	J
19. 2425856	2-Naphthalenol, 1-[(4-methyl	35.76	210	JN

Appendix D

Support Documentation

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Instrument ID: MS3 Calibration Date(s): 10/12/94 10/12/94

Heated Purge: (Y/N): N Calibration Times: 1432 1735

GC Column: HP-624 ID: 0.530 (mm)

LAB FILE ID: RRF10 = CI314 RRF20 = CI313
RRF50= CI312 RRF100= CI315 RRF200= CI316

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane		1.064	0.932	0.976	1.038	0.966	0.995	5.5
Bromomethane	*	1.277	0.886	1.008	0.719	0.721	0.922	25.2*
Vinyl Chloride	*	0.966	0.852	0.932	1.004	0.937	0.938	6.0*
Chloroethane		0.647	0.629	0.691	0.485	0.370	0.564	23.6
Methylene Chloride		2.547	2.290	2.085	2.026	1.818	2.153	12.9
Acetone		0.569	0.278	0.238	0.269	0.251	0.321	43.5
Carbon Disulfide		3.387	3.091	3.688	3.747	3.479	3.478	7.5
1,1-Dichloroethene	*	1.706	1.140	1.353	1.420	1.338	1.391	14.7*
1,1-Dichloroethane	*	2.846	2.516	2.904	2.998	2.754	2.804	6.5*
1,2-Dichloroethene (total)		1.636	1.554	1.779	1.697	1.543	1.642	6.0
Chloroform	*	3.558	3.223	3.706	3.569	3.361	3.483	5.5*
1,2-Dichloroethane	*	1.995	1.808	2.110	2.315	2.125	2.071	9.0*
2-Butanone		0.833	0.594	0.591	0.694	0.625	0.667	15.2
1,1,1-Trichloroethane	*	0.615	0.559	0.701	0.738	0.721	0.667	11.5*
Carbon Tetrachloride	*	0.482	0.434	0.580	0.594	0.609	0.540	14.3*
Bromodichloromethane	*	0.659	0.610	0.705	0.767	0.773	0.703	10.0*
1,2-Dichloropropane		0.380	0.326	0.362	0.385	0.401	0.371	7.7
cis-1,3-Dichloropropene	*	0.449	0.452	0.521	0.564	0.572	0.512	11.5*
Trichloroethene	*	0.349	0.318	0.388	0.385	0.394	0.367	8.8*
Dibromochloromethane	*	0.451	0.435	0.502	0.515	0.554	0.491	9.9*
1,1,2-Trichloroethane	*	0.279	0.256	0.275	0.280	0.292	0.276	4.7*
Benzene	*	0.868	0.787	0.903	0.936	0.915	0.882	6.6*
trans-1,3-Dichloropropene	*	0.330	0.358	0.397	0.459	0.464	0.402	14.8*
Bromoform	*	0.307	0.314	0.373	0.431	0.440	0.373	16.8*
4-Methyl-2-Pentanone		0.615	0.501	0.503	0.546	0.531	0.539	8.6
2-Hexanone		0.459	0.327	0.268	0.336	0.353	0.349	19.9
Tetrachloroethene	*	0.382	0.370	0.445	0.421	0.399	0.403	7.5*
1,1,2,2-Tetrachloroethane	*	0.604	0.565	0.634	0.703	0.683	0.638	8.8*
Toluene	*	1.267	1.234	1.432	1.431	1.358	1.344	6.8*
Chlorobenzene	*	0.870	0.846	0.953	0.935	0.924	0.906	5.0*
Ethylbenzene	*	0.407	0.400	0.461	0.456	0.425	0.430	6.5*
Styrene	*	0.882	0.928	0.998	1.005	0.939	0.950	5.4*
Xylene (total)	*	0.524	0.515	0.544	0.564	0.515	0.532	4.0*
Toluene-d8		1.013	1.015	1.211	1.209	1.171	1.124	9.0
Bromofluorobenzene	*	0.745	0.692	0.778	0.797	0.780	0.758	5.5*
1,2-Dichloroethane-d4		1.765	1.585	1.842	1.978	1.880	1.810	8.1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

FORM VI VOA 3/90

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Instrument ID: MS3 Calibration date: 12/28/94 Time: 0932

Lab File ID: CJ902 Init. Calib. Date(s): 10/12/94 10/12/94

Heated Purge: (Y/N) N Init. Calib. Times: 1432 1735

GC Column: HP-624 ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	Associated Samples
Chloromethane	0.995	1.208		-21.4		
Bromomethane	0.922	0.761	0.100	17.5	25.0	VBLKCF
Vinyl Chloride	0.938	1.175	0.100	-25.3	25.0	CPS35MS
Chloroethane	0.564	0.718		-27.3		CPS35MSD
Methylene Chloride	2.153	1.265		41.2		CPS36
Acetone	0.321	0.212		34.0		CPS37
Carbon Disulfide	3.478	2.572		26.0		CPS38
1,1-Dichloroethene	1.391	1.230	0.100	11.6	25.0	CPS39
1,1-Dichloroethane	2.804	2.587	0.200	7.7	25.0	
1,2-Dichloroethene (total)	1.642	1.475		10.2		
Chloroform	3.483	3.115	0.200	10.6	25.0	
1,2-Dichloroethane	2.071	1.953	0.100	5.7	25.0	
2-Butanone	0.667	0.464		30.4		
1,1,1-Trichloroethane	0.667	0.603	0.100	9.6	25.0	
Carbon Tetrachloride	0.540	0.540	0.100	0.0	25.0	
Bromodichloromethane	0.703	0.628	0.200	10.7	25.0	
1,2-Dichloropropane	0.371	0.336		9.4		
cis-1,3-Dichloropropene	0.512	0.463	0.200	9.6	25.0	
Trichloroethene	0.367	0.374	0.300	-1.9	25.0	
Dibromochloromethane	0.491	0.500	0.100	-1.8	25.0	
1,1,2-Trichloroethane	0.276	0.244	0.100	11.6	25.0	
Benzene	0.882	0.761	0.500	13.7	25.0	
trans-1,3-Dichloropropene	0.402	0.377	0.100	6.2	25.0	
Bromoform	0.373	0.388	0.100	-4.0	25.0	
4-Methyl-2-Pentanone	0.539	0.369		31.5		
2-Hexanone	0.349	0.217		37.8		
Tetrachloroethene	0.403	0.465	0.200	-15.4	25.0	
1,1,2,2-Tetrachloroethane	0.638	0.542	0.500	15.0	25.0	
Toluene	1.344	1.316	0.400	2.1	25.0	
Chlorobenzene	0.906	0.918	0.500	-1.3	25.0	
Ethylbenzene	0.430	0.448	0.100	-4.2	25.0	
Styrene	0.950	0.946	0.300	0.4	25.0	
Xylene (total)	0.532	0.532	0.300	0.0	25.0	
Toluene-d8	1.124	1.190		-5.9		
Bromofluorobenzene	0.758	0.742	0.200	2.1	25.0	
1,2-Dichloroethane-d4	1.810	1.728		4.5		

All other compounds must meet a minimum RRF of 0.010.

242

ORIGINAL (Red)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Instrument ID: MS3 Calibration date: 12/29/94 Time: 1108

Lab File ID: CJ926 Init. Calib. Date(s): 10/12/94 10/12/94

Heated Purge: (Y/N) N Init. Calib. Times: 1432 1735

GC Column: HP-624 ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	Associated Samples
Chloromethane	0.995	1.129		-13.5		
Bromomethane	0.922	0.693	0.100	24.8	25.0	VBLKC6
Vinyl Chloride	0.938	1.039	0.100	-10.8	25.0	CPS40
Chloroethane	0.564	0.684		-21.3		
Methylene Chloride	2.153	1.270		41.0		CPS41
Acetone	0.321	0.270		15.9		CPS42
Carbon Disulfide	3.478	2.190		37.0		CPS43
1,1-Dichloroethene	1.391	1.068	0.100	23.2	25.0	CPS56
1,1-Dichloroethane	2.804	2.555	0.200	8.9	25.0	CPS34
1,2-Dichloroethene (total)	1.642	1.399		14.8		CPS35
Chloroform	3.483	2.917	0.200	16.2	25.0	
1,2-Dichloroethane	2.071	1.978	0.100	4.5	25.0	
2-Butanone	0.667	0.590		11.5		
1,1,1-Trichloroethane	0.667	0.591	0.100	11.4	25.0	
Carbon Tetrachloride	0.540	0.486	0.100	10.0	25.0	
Bromodichloromethane	0.703	0.614	0.200	12.7	25.0	
1,2-Dichloropropane	0.371	0.356		4.0		
cis-1,3-Dichloropropene	0.512	0.480	0.200	6.2	25.0	
Trichloroethene	0.367	0.366	0.300	0.3	25.0	
Dibromochloromethane	0.491	0.544	0.100	-10.8	25.0	
1,1,2-Trichloroethane	0.276	0.281	0.100	-1.8	25.0	
Benzene	0.882	0.778	0.500	11.8	25.0	
trans-1,3-Dichloropropene	0.402	0.386	0.100	4.0	25.0	
Bromoform	0.373	0.442	0.100	-18.5	25.0	
4-Methyl-2-Pentanone	0.539	0.475		11.9		
2-Hexanone	0.349	0.299		14.3		
Tetrachloroethene	0.403	0.441	0.200	-9.4	25.0	
1,1,2,2-Tetrachloroethane	0.638	0.689	0.500	-8.0	25.0	
Toluene	1.344	1.334	0.400	0.7	25.0	
Chlorobenzene	0.906	0.949	0.500	-4.7	25.0	
Ethylbenzene	0.430	0.461	0.100	-7.2	25.0	
Styrene	0.950	1.011	0.300	-6.4	25.0	
Xylene (total)	0.532	0.552	0.300	-3.8	25.0	
Toluene-d8	1.124	1.244		-10.7		
Bromofluorobenzene	0.758	0.756	0.200	0.3	25.0	
1,2-Dichloroethane-d4	1.810	1.772		2.1		

All other compounds must meet a minimum RRF of 0.010.

243

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS3 Calibration Date(s): 12/05/94 12/06/94

Heated Purge: (Y/N): Y Calibration Times: 2300 0355

GC Column: HP-624 ID: 0.530 (mm)

LAB FILE ID: RRF10 = CJ494 RRF20 = CJ492
RRF50= CJ490 RRF100= CJ496 RRF200= CJ498

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	1.236	1.195	1.161	1.156	1.215	1.193	2.9
Bromomethane *	0.672	0.629	0.503	0.481	0.578	0.573	14.2*
Vinyl Chloride *	1.035	0.997	1.000	0.972	1.057	1.012	3.3*
Chloroethane	0.566	0.543	0.473	0.318	0.286	0.437	29.4
Methylene Chloride	1.319	1.189	1.139	1.129	1.228	1.201	6.4
Acetone	0.609	0.554	0.424	0.496	0.538	0.524	13.2
Carbon Disulfide	2.206	2.452	2.446	2.529	3.160	2.559	14.0
1,1-Dichloroethene *	1.074	1.009	0.990	1.024	1.139	1.047	5.7*
1,1-Dichloroethane *	2.361	2.314	2.294	2.331	2.605	2.381	5.4*
1,2-Dichloroethene (total)	1.229	1.234	1.207	1.209	1.417	1.259	7.1
Chloroform *	2.747	2.713	2.727	2.808	3.148	2.829	6.4*
1,2-Dichloroethane *	2.126	2.026	1.786	2.048	2.248	2.047	8.3*
2-Butanone	1.233	1.056	0.775	0.965	1.031	1.012	16.4
1,1,1-Trichloroethane *	0.634	0.632	0.636	0.653	0.751	0.661	7.7*
Carbon Tetrachloride *	0.442	0.481	0.531	0.566	0.656	0.535	15.4*
Bromodichloromethane *	0.597	0.631	0.667	0.737	0.840	0.694	13.9*
1,2-Dichloropropane	0.395	0.376	0.376	0.386	0.391	0.385	2.2
cis-1,3-Dichloropropene *	0.422	0.450	0.477	0.515	0.592	0.491	13.4*
Trichloroethene *	0.327	0.375	0.400	0.392	0.388	0.376	7.7*
Dibromochloromethane *	0.465	0.532	0.570	0.610	0.685	0.572	14.4
1,1,2-Trichloroethane *	0.313	0.311	0.300	0.337	0.376	0.327	9.3*
Benzene *	0.892	0.876	0.837	0.849	0.914	0.874	3.6*
trans-1,3-Dichloropropene *	0.299	0.343	0.431	0.435	0.481	0.398	18.7*
Bromoform *	0.407	0.450	0.467	0.561	0.647	0.506	19.1*
4-Methyl-2-Pentanone	0.658	0.660	0.512	0.659	0.804	0.659	15.7
2-Hexanone	0.585	0.584	0.450	0.558	0.660	0.567	13.4
Tetrachloroethene *	0.433	0.417	0.427	0.415	0.453	0.429	3.6*
1,1,2,2-Tetrachloroethane *	0.744	0.740	0.637	0.740	0.817	0.736	8.7*
Toluene *	1.216	1.232	1.171	1.160	1.296	1.215	4.5*
Chlorobenzene *	0.827	0.830	0.816	0.810	0.916	0.840	5.2*
Ethylbenzene *	0.415	0.407	0.383	0.392	0.438	0.407	5.2*
Styrene *	0.846	0.883	0.866	0.840	0.984	0.884	6.6*
Xylene (total) *	0.520	0.511	0.482	0.494	0.562	0.514	6.0*
Toluene-d8	0.978	0.988	0.985	1.012	1.139	1.020	6.6
Bromofluorobenzene *	0.660	0.637	0.632	0.655	0.696	0.656	3.9*
1,2-Dichloroethane-d4	1.757	1.608	1.557	1.758	1.976	1.731	9.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS3 Calibration date: 12/23/94 Time: 0858

Lab File ID: CJ841 Init. Calib. Date(s): 12/05/94 12/06/94

Heated Purge: (Y/N) Y Init. Calib. Times: 2300 0355

GC Column: HP-624 ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.193	1.299		-8.9	
Bromomethane	0.573	0.663	0.100	-15.7	25.0
Vinyl Chloride	1.012	1.138	0.100	-12.4	25.0
Chloroethane	0.437	0.732		-67.5	
Methylene Chloride	1.201	1.430		-19.1	
Acetone	0.524	0.389		25.8	
Carbon Disulfide	2.559	3.206		-25.3	
1,1-Dichloroethene	1.047	1.234	0.100	-17.9	25.0
1,1-Dichloroethane	2.381	2.891	0.200	-21.4	25.0
1,2-Dichloroethene (total)	1.259	1.575		-25.1	
Chloroform	2.829	3.347	0.200	-18.3	25.0
1,2-Dichloroethane	2.047	2.315	0.100	-13.1	25.0
2-Butanone	1.012	0.929		8.2	
1,1,1-Trichloroethane	0.661	0.651	0.100	1.5	25.0
Carbon Tetrachloride	0.535	0.612	0.100	-14.4	25.0
Bromodichloromethane	0.694	0.711	0.200	-2.4	25.0
1,2-Dichloropropane	0.385	0.417		-8.3	
cis-1,3-Dichloropropene	0.491	0.507	0.200	-3.3	25.0
Trichloroethene	0.376	0.425	0.300	-13.0	25.0
Dibromochloromethane	0.572	0.628	0.100	-9.8	25.0
1,1,2-Trichloroethane	0.327	0.336	0.100	-2.8	25.0
Benzene	0.874	0.905	0.500	-3.5	25.0
trans-1,3-Dichloropropene	0.398	0.455	0.100	-14.3	25.0
Bromoform	0.506	0.532	0.100	-5.1	25.0
4-Methyl-2-Pentanone	0.659	0.683		-3.6	
2-Hexanone	0.567	0.466		17.8	
Tetrachloroethene	0.429	0.509	0.200	-18.6	25.0
1,1,2,2-Tetrachloroethane	0.736	0.849	0.500	-15.4	25.0
Toluene	1.215	1.424	0.400	-17.2	25.0
Chlorobenzene	0.840	1.030	0.500	-22.6	25.0
Ethylbenzene	0.407	0.471	0.100	-15.7	25.0
Styrene	0.884	1.022	0.300	-15.6	25.0
Xylene (total)	0.514	0.586	0.300	-14.0	25.0
Toluene-d8	1.020	1.195		-17.2	
Bromofluorobenzene	0.656	0.750	0.200	-14.3	25.0
1,2-Dichloroethane-d4	1.731	1.832		-5.8	

Associated Samples
VBLKCD
CPS52
CPS53
CPS54
CPS55

All other compounds must meet a minimum RRF of 0.010.

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7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS3 Calibration date: 12/27/94 Time: 1114

Lab File ID: CJ876 Init. Calib. Date(s): 12/05/94 12/06/94

Heated Purge: (Y/N) Y Init. Calib. Times: 2300 0355

GC Column: HP-624 ID: 0.530 (mm)

Associated Samples

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.193	1.243		-4.2	
Bromomethane	0.573	0.720	0.100	-25.6	25.0
Vinyl Chloride	1.012	1.021	0.100	-0.9	25.0
Chloroethane	0.437	0.720		-64.8	
Methylene Chloride	1.201	1.559		-29.8	
Acetone	0.524	0.292		44.3	
Carbon Disulfide	2.559	2.779		-8.6	
1,1-Dichloroethene	1.047	1.104	0.100	-5.4	25.0
1,1-Dichloroethane	2.381	2.922	0.200	-22.7	25.0
1,2-Dichloroethene (total)	1.259	1.577		-25.3	
Chloroform	2.829	3.397	0.200	-20.1	25.0
1,2-Dichloroethane	2.047	2.224	0.100	-8.6	25.0
2-Butanone	1.012	0.590		41.7	
1,1,1-Trichloroethane	0.661	0.596	0.100	9.8	25.0
Carbon Tetrachloride	0.535	0.498	0.100	6.9	25.0
Bromodichloromethane	0.694	0.712	0.200	-2.6	25.0
1,2-Dichloropropane	0.385	0.392		-1.8	
cis-1,3-Dichloropropene	0.491	0.538	0.200	-9.6	25.0
Trichloroethene	0.376	0.400	0.300	-6.4	25.0
Dibromochloromethane	0.572	0.574	0.100	-0.3	25.0
1,1,2-Trichloroethane	0.327	0.293	0.100	10.4	25.0
Benzene	0.874	0.835	0.500	4.5	25.0
trans-1,3-Dichloropropene	0.398	0.455	0.100	-14.3	25.0
Bromoform	0.506	0.471	0.100	6.9	25.0
4-Methyl-2-Pentanone	0.659	0.477		27.6	
2-Hexanone	0.567	0.281		50.4	
Tetrachloroethene	0.429	0.424	0.200	1.2	25.0
1,1,2,2-Tetrachloroethane	0.736	0.655	0.500	11.0	25.0
Toluene	1.215	1.305	0.400	-7.4	25.0
Chlorobenzene	0.840	0.959	0.500	-14.2	25.0
Ethylbenzene	0.407	0.445	0.100	-9.3	25.0
Styrene	0.884	1.014	0.300	-14.7	25.0
Xylene (total)	0.514	0.575	0.300	-11.9	25.0
Toluene-d8	1.020	1.154		-13.1	
Bromofluorobenzene	0.656	0.722	0.200	-10.1	25.0
1,2-Dichloroethane-d4	1.731	1.807		-4.4	

VBLKCE
CPS45

All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS5 Calibration Date(s): 12/16/94 12/16/94

Heated Purge: (Y/N): Y Calibration Times: 0932 1455

GC Column: HP-624 ID: 0.530 (mm)

LAB FILE ID: RRF10 = EG355 RRF20 = EG351
RRF50= EG349 RRF100= EG353 RRF200= EG354

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane		0.736	0.789	0.862	0.706	0.700	0.759	8.9
Bromomethane	*	0.702	0.566	0.344	0.361	0.274	0.449	39.7
Vinyl Chloride	*	0.738	0.797	0.826	0.730	0.754	0.769	5.3*
hloroethane		0.550	0.576	0.514	0.454	0.297	0.478	23.2
Methylene Chloride		2.895	1.629	1.382	1.518	1.327	1.750	37.2
Acetone		0.573	0.433	0.518	0.414	0.411	0.470	15.4
Carbon Disulfide		1.841	2.068	2.342	2.693	2.975	2.384	19.2
1,1-Dichloroethene	*	0.919	0.984	1.067	1.014	1.084	1.014	6.5*
1,1-Dichloroethane	*	2.112	2.199	2.321	2.247	2.312	2.238	3.9*
1,2-Dichloroethene (total)		1.440	1.326	1.404	1.318	1.369	1.371	3.8
Chloroform	*	2.188	2.275	2.483	2.366	2.428	2.348	5.0*
1,2-Dichloroethane	*	1.583	1.648	1.852	1.611	1.677	1.674	6.3*
2-Butanone		1.112	0.863	1.108	0.871	0.941	0.979	12.6
1,1,1-Trichloroethane	*	0.350	0.361	0.432	0.427	0.444	0.403	10.9*
Carbon Tetrachloride	*	0.273	0.312	0.358	0.372	0.394	0.342	14.3*
Bromodichloromethane	*	0.440	0.460	0.572	0.580	0.626	0.536	15.1*
1,2-Dichloropropane		0.301	0.307	0.363	0.345	0.363	0.336	8.9
cis-1,3-Dichloropropene	*	0.328	0.356	0.428	0.442	0.470	0.405	14.8*
Trichloroethene	*	0.382	0.389	0.455	0.417	0.434	0.415	7.4*
bromochloromethane	*	0.425	0.455	0.551	0.590	0.602	0.525	15.3*
1,1,2-Trichloroethane	*	0.293	0.284	0.333	0.322	0.328	0.312	7.1*
Benzene	*	0.764	0.781	0.897	0.826	0.848	0.823	6.5*
trans-1,3-Dichloropropene	*	0.272	0.286	0.350	0.375	0.419	0.340	18.1*
Bromoform	*	0.371	0.396	0.543	0.574	0.611	0.499	21.8*
4-Methyl-2-Pentanone		0.808	0.565	0.746	0.665	0.700	0.697	13.1
2-Hexanone		0.706	0.405	0.484	0.431	0.483	0.502	23.7
Tetrachloroethene	*	0.508	0.514	0.557	0.520	0.549	0.530	4.1*
1,1,2,2-Tetrachloroethane	*	0.795	0.786	0.895	0.892	0.983	0.870	9.4*
Toluene	*	1.206	1.200	1.404	1.256	1.360	1.285	7.2*
Chlorobenzene	*	0.904	0.902	0.982	0.927	0.945	0.932	3.6*
Ethylbenzene	*	0.400	0.386	0.458	0.416	0.443	0.421	7.1*
Styrene	*	0.856	0.853	0.981	0.925	0.977	0.918	6.8*
Xylene (total)	*	0.487	0.499	0.550	0.516	0.527	0.516	4.8*
Toluene-d8		1.070	1.041	1.172	1.122	1.156	1.112	5.0
Bromofluorobenzene	*	0.735	0.715	0.753	0.753	0.783	0.748	3.4*
1,2-Dichloroethane-d4		1.282	1.334	1.423	1.348	1.380	1.353	3.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS5 Calibration date: 12/23/94 Time: 0912

Lab File ID: EG469 Init. Calib. Date(s): 12/16/94 12/16/94

Heated Purge: (Y/N) Y Init. Calib. Times: 0932 1455

GC Column: HP-624 ID: 0.530 (mm)

Associated Samples

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.759	0.778		-2.5	
Bromomethane	0.449	0.362	0.100	19.4	25.0
Vinyl Chloride	0.769	0.834	0.100	-8.5	25.0
Chloroethane	0.478	0.465		2.7	
Methylene Chloride	1.750	1.342		23.3	
Acetone	0.470	0.508		-8.1	
Carbon Disulfide	2.384	2.305		3.3	
1,1-Dichloroethene	1.014	1.040	0.100	-2.6	25.0
1,1-Dichloroethane	2.238	2.304	0.200	-2.9	25.0
1,2-Dichloroethene (total)	1.371	1.357		1.0	
Chloroform	2.348	2.371	0.200	-1.0	25.0
1,2-Dichloroethane	1.674	1.742	0.100	-4.1	25.0
2-Butanone	0.979	1.067		-9.0	
1,1,1-Trichloroethane	0.403	0.403	0.100	0.0	25.0
Carbon Tetrachloride	0.342	0.344	0.100	-0.6	25.0
Bromodichloromethane	0.536	0.554	0.200	-3.4	25.0
1,2-Dichloropropane	0.336	0.349		-3.9	
cis-1,3-Dichloropropene	0.405	0.436	0.200	-7.7	25.0
Trichloroethene	0.415	0.421	0.300	-1.4	25.0
Dibromochloromethane	0.525	0.549	0.100	-4.6	25.0
1,1,2-Trichloroethane	0.312	0.325	0.100	-4.2	25.0
Benzene	0.823	0.828	0.500	-0.6	25.0
trans-1,3-Dichloropropene	0.340	0.372	0.100	-9.4	25.0
Bromoform	0.499	0.545	0.100	-9.2	25.0
4-Methyl-2-Pentanone	0.697	0.725		-4.0	
2-Hexanone	0.502	0.493		1.8	
Tetrachloroethene	0.530	0.555	0.200	-4.7	25.0
1,1,2,2-Tetrachloroethane	0.870	0.915	0.500	-5.2	25.0
Toluene	1.285	1.307	0.400	-1.7	25.0
Chlorobenzene	0.932	0.954	0.500	-2.4	25.0
Ethylbenzene	0.421	0.429	0.100	-1.9	25.0
Styrene	0.918	0.930	0.300	-1.3	25.0
Xylene (total)	0.516	0.525	0.300	-1.7	25.0
Toluene-d8	1.112	1.133		-1.9	
Bromofluorobenzene	0.748	0.768	0.200	-2.7	25.0
1,2-Dichloroethane-d4	1.353	1.396		-3.2	

VBLKEQ CPS44

All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS5 Calibration date: 12/28/94 Time: 1104

Lab File ID: EG552 Init. Calib. Date(s): 12/16/94 12/16/94

Heated Purge: (Y/N) Y Init. Calib. Times: 0932 1455

GC Column: HP-624 ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	Associated Samples
Chloromethane	0.759	0.887		-16.9		
Bromomethane	0.449	0.466	0.100	-3.8	25.0	
Vinyl Chloride	0.769	0.850	0.100	-10.5	25.0	
Chloroethane	0.478	0.545		-14.0		
Methylene Chloride	1.750	1.371		21.7		
Acetone	0.470	0.457		2.8		
Carbon Disulfide	2.384	1.655		30.6		
1,1-Dichloroethene	1.014	1.061	0.100	-4.6	25.0	
1,1-Dichloroethane	2.238	2.432	0.200	-8.7	25.0	VOLKET
1,2-Dichloroethene (total)	1.371	1.357		1.0		CPS48RE
Chloroform	2.348	2.521	0.200	-7.4	25.0	CPS 49
1,2-Dichloroethane	1.674	1.819	0.100	-8.7	25.0	CPS 49RE
2-Butanone	0.979	0.935		4.5		
1,1,1-Trichloroethane	0.403	0.380	0.100	5.7	25.0	
Carbon Tetrachloride	0.342	0.329	0.100	3.8	25.0	
Bromodichloromethane	0.536	0.536	0.200	0.0	25.0	
1,2-Dichloropropane	0.336	0.364		-8.3		
cis-1,3-Dichloropropene	0.405	0.420	0.200	-3.7	25.0	
Trichloroethene	0.415	0.436	0.300	-5.1	25.0	
Dibromochloromethane	0.525	0.550	0.100	-4.8	25.0	
1,1,2-Trichloroethane	0.312	0.330	0.100	-5.8	25.0	
Benzene	0.823	0.831	0.500	-1.0	25.0	
trans-1,3-Dichloropropene	0.340	0.345	0.100	-1.5	25.0	
Bromoform	0.499	0.513	0.100	-2.8	25.0	
4-Methyl-2-Pentanone	0.697	0.656		5.9		
2-Hexanone	0.502	0.429		14.5		
Tetrachloroethene	0.530	0.577	0.200	-8.9	25.0	
1,1,2,2-Tetrachloroethane	0.870	0.890	0.500	-2.3	25.0	
Toluene	1.285	1.343	0.400	-4.5	25.0	
Chlorobenzene	0.932	1.009	0.500	-8.3	25.0	
Ethylbenzene	0.421	0.445	0.100	-5.7	25.0	
Styrene	0.918	0.966	0.300	-5.2	25.0	
Xylene (total)	0.516	0.549	0.300	-6.4	25.0	
Toluene-d8	1.112	1.146		-3.1		
Bromofluorobenzene	0.748	0.771	0.200	-3.1	25.0	
1,2-Dichloroethane-d4	1.353	1.380		-2.0		

All other compounds must meet a minimum RRF of 0.010.

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7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS5 Calibration date: 12/27/94 Time: 1610

Lab File ID: EG531 Init. Calib. Date(s): 12/16/94 12/16/94

Heated Purge: (Y/N) Y Init. Calib. Times: 0932 1455

GC Column: HP-624 ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	Associated Samples
Chloromethane	0.759	1.037		-36.6		
Bromomethane	0.449	0.418	0.100	6.9	25.0	VBLKES
Vinyl Chloride	0.769	1.010	0.100	-31.3	25.0	CPS48
Chloroethane	0.478	0.556		-16.3		CPS51MS
Methylene Chloride	1.750	1.490		14.9		CPS51MSD
Acetone	0.470	0.585		-24.5		
Carbon Disulfide	2.384	1.972		17.3		
1,1-Dichloroethene	1.014	1.168	0.100	-15.2	25.0	
1,1-Dichloroethane	2.238	2.676	0.200	-19.6	25.0	
1,2-Dichloroethene (total)	1.371	1.513		-10.4		
Chloroform	2.348	2.654	0.200	-13.0	25.0	
1,2-Dichloroethane	1.674	1.978	0.100	-18.2	25.0	
2-Butanone	0.979	1.295		-32.3		
1,1,1-Trichloroethane	0.403	0.406	0.100	-0.7	25.0	
Carbon Tetrachloride	0.342	0.329	0.100	3.8	25.0	
Bromodichloromethane	0.536	0.575	0.200	-7.3	25.0	
1,2-Dichloropropane	0.336	0.390		-16.1		
cis-1,3-Dichloropropene	0.405	0.466	0.200	-15.1	25.0	
Trichloroethene	0.415	0.461	0.300	-11.1	25.0	
Dibromochloromethane	0.525	0.591	0.100	-12.6	25.0	
1,1,2-Trichloroethane	0.312	0.363	0.100	-16.4	25.0	
Benzene	0.823	0.875	0.500	-6.3	25.0	
trans-1,3-Dichloropropene	0.340	0.387	0.100	-13.8	25.0	
Bromoform	0.499	0.588	0.100	-17.8	25.0	
4-Methyl-2-Pentanone	0.697	0.802		-15.1		
2-Hexanone	0.502	0.527		-5.0		
Tetrachloroethene	0.530	0.576	0.200	-8.7	25.0	
1,1,2,2-Tetrachloroethane	0.870	0.983	0.500	-13.0	25.0	
Toluene	1.285	1.398	0.400	-8.8	25.0	
Chlorobenzene	0.932	1.012	0.500	-8.6	25.0	
Ethylbenzene	0.421	0.465	0.100	-10.4	25.0	
Styrene	0.918	0.999	0.300	-8.8	25.0	
Xylene (total)	0.516	0.564	0.300	-9.3	25.0	
Toluene-d8	1.112	1.116		-0.4		
Bromofluorobenzene	0.748	0.779	0.200	-4.1	25.0	
1,2-Dichloroethane-d4	1.353	1.433		-5.9		

All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Instrument ID: MS5 Calibration date: 12/25/94 Time: 1618

Lab File ID: EG506 Init. Calib. Date(s): 12/16/94 12/16/94

Heated Purge: (Y/N) Y Init. Calib. Times: 0932 1455

GC Column: HP-624 ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	Associated Samples
Chloromethane	0.759	1.051		-38.5		
Bromomethane	0.449	0.422	0.100	6.0	25.0	VBLKER
Vinyl Chloride	0.769	1.044	0.100	-35.8	25.0	
Chloroethane	0.478	0.583		-22.0		CPS46
Methylene Chloride	1.750	1.499		14.3		CPS47
Acetone	0.470	0.545		-16.0		CPS50
Carbon Disulfide	2.384	2.262		5.1		CPS51
1,1-Dichloroethene	1.014	1.166	0.100	-15.0	25.0	
1,1-Dichloroethane	2.238	2.677	0.200	-19.6	25.0	
1,2-Dichloroethene (total)	1.371	1.475		-7.6		
Chloroform	2.348	2.578	0.200	-9.8	25.0	
1,2-Dichloroethane	1.674	1.851	0.100	-10.6	25.0	
2-Butanone	0.979	1.179		-20.4		
1,1,1-Trichloroethane	0.403	0.381	0.100	5.5	25.0	
Carbon Tetrachloride	0.342	0.330	0.100	3.5	25.0	
Bromodichloromethane	0.536	0.575	0.200	-7.3	25.0	
1,2-Dichloropropane	0.336	0.395		-17.6		
cis-1,3-Dichloropropene	0.405	0.482	0.200	-19.0	25.0	
Trichloroethene	0.415	0.458	0.300	-10.4	25.0	
Dibromochloromethane	0.525	0.577	0.100	-9.9	25.0	
1,1,2-Trichloroethane	0.312	0.347	0.100	-11.2	25.0	
Benzene	0.823	0.850	0.500	-3.3	25.0	
trans-1,3-Dichloropropene	0.340	0.394	0.100	-15.9	25.0	
Bromoform	0.499	0.572	0.100	-14.6	25.0	
4-Methyl-2-Pentanone	0.697	0.764		-9.6		
2-Hexanone	0.502	0.496		1.2		
Tetrachloroethene	0.530	0.578	0.200	-9.1	25.0	
1,1,2,2-Tetrachloroethane	0.870	0.944	0.500	-8.5	25.0	
Toluene	1.285	1.375	0.400	-7.0	25.0	
Chlorobenzene	0.932	1.003	0.500	-7.6	25.0	
Ethylbenzene	0.421	0.449	0.100	-6.7	25.0	
Styrene	0.918	0.978	0.300	-6.5	25.0	
Xylene (total)	0.516	0.540	0.300	-4.7	25.0	
Toluene-d8	1.112	1.117		-0.4		
Bromofluorobenzene	0.748	0.792	0.200	-5.9	25.0	
1,2-Dichloroethane-d4	1.353	1.376		-1.7		

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Instrument ID: MS10 Calibration Date(s): 01/04/95 01/04/95

Calibration Times: 1127 1741

LAB FILE ID: RRF20 = JB535 RRF50 = JB530
RRF80 = JB532 RRF120= JB533 RRF160= JB534

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.668	1.679	1.840	1.954	1.631	1.754	7.8*
bis(2-Chloroethyl)Ether *	1.556	1.604	1.813	1.834	1.441	1.650	10.3*
2-Chlorophenol *	1.278	1.317	1.466	1.462	1.294	1.363	6.8*
1,3-Dichlorobenzene *	1.396	1.443	1.608	1.501	1.440	1.478	5.5*
1,4-Dichlorobenzene *	1.410	1.464	1.507	1.402	1.430	1.479	5.2*
1,2-Dichlorobenzene *	1.327	1.364	1.463	1.352	1.245	1.350	5.8*
2-Methylphenol *	0.991	1.068	1.176	1.282	1.021	1.108	10.8*
2,2'-oxybis(1-Chloropropane)	1.597	2.078	2.345	2.687	2.294	2.280	11.8
4-Methylphenol *	1.030	1.082	1.177	1.244	0.993	1.107	9.3*
N-Nitroso-Di-n-Propylamine *	0.981	1.056	1.212	1.373	0.992	1.123	14.9*
Hexachloroethane *	0.509	0.628	0.707	0.662	0.630	0.643	6.9*
Nitrobenzene *	0.409	0.421	0.449	0.446	0.428	0.431	3.9*
Isophorone *	0.855	0.910	1.082	1.019	0.857	0.945	10.8*
2-Nitrophenol *	0.210	0.237	0.266	0.266	0.250	0.246	9.5*
2,4-Dimethylphenol *	0.301	0.358	0.407	0.406	0.371	0.369	11.8*
bis(2-Chloroethoxy)Methane *	0.512	0.533	0.594	0.584	0.523	0.549	6.8*
2,4-Dichlorophenol *	0.312	0.340	0.376	0.349	0.329	0.341	7.0*
1,2,4-Trichlorobenzene *	0.371	0.382	0.406	0.362	0.370	0.378	4.5*
Naphthalene *	0.971	1.006	1.072	0.966	0.943	0.992	5.1*
4-Chloroaniline	0.400	0.398	0.499	0.458	0.417	0.434	10.0
Hexachlorobutadiene	0.219	0.229	0.239	0.219	0.228	0.227	3.7
4-Chloro-3-Methylphenol *	0.329	0.354	0.466	0.402	0.356	0.381	14.2*
2-Methylnaphthalene *	0.599	0.635	0.720	0.627	0.567	0.630	9.1*
Hexachlorocyclopentadiene	0.298	0.406	0.353	0.441	0.470	0.394	17.5
2,4,6-Trichlorophenol *	0.484	0.510	0.533	0.526	0.518	0.514	3.7*
2,4,5-Trichlorophenol *		0.549	0.590	0.561	0.541	0.560	3.8*
2-Chloronaphthalene *	1.270	1.279	1.257	1.230	1.189	1.245	2.9*
2-Nitroaniline		0.493	0.615	0.569	0.575	0.563	9.0
Dimethyl Phthalate	1.591	1.664	1.974	1.726	1.710	1.733	8.3
Acenaphthylene *	1.889	1.966	2.067	1.903	1.876	1.940	4.1*
2,6-Dinitrotoluene *	0.348	0.399	0.497	0.442	0.454	0.428	13.3*
3-Nitroaniline		0.371	0.507	0.426	0.474	0.444	13.3
Acenaphthene *	1.189	1.208	1.268	1.152	1.138	1.191	4.3*
2,4-Dinitrophenol		0.228	0.315	0.260	0.303	0.276	14.5
4-Nitrophenol		0.171	0.231	0.204	0.234	0.210	14.0
Dibenzofuran *	1.641	1.669	1.739	1.528	1.540	1.623	5.5*
2,4-Dinitrotoluene *	0.456	0.534	0.642	0.527	0.564	0.545	12.4*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D0-0021

Lab Code: CEIMIC Case No.: 22084 SAS No.: SDG No.: 22840

Instrument ID: MS10 Calibration Date(s): 01/04/95 01/04/95

Calibration Times: 1127 1741

LAB FILE ID: RRF20 = JB535 RRF50 = JB530
RRF80 = JB532 RRF120= JB533 RRF160= JB534

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Diethylphthalate	1.516	1.701	2.011	1.637	1.687	1.710	10.7
4-Chlorophenyl-phenylether *	0.622	0.663	0.660	0.537	0.539	0.604	10.4*
Fluorene *	1.181	1.220	1.261	1.006	1.040	1.142	9.9*
4-Nitroaniline		0.394	0.500	0.419	0.509	0.456	12.6
4,6-Dinitro-2-Methylphenol		0.180	0.214	0.205	0.208	0.202	7.4
N-Nitrosodiphenylamine (1)	0.556	0.477	0.513	0.497	0.469	0.502	6.9
4-Bromophenyl-phenylether *	0.248	0.231	0.245	0.245	0.231	0.240	3.5*
Hexachlorobenzene *	0.335	0.317	0.340	0.317	0.314	0.325	3.7*
Pentachlorophenol *		0.192	0.215	0.203	0.209	0.205	4.8*
Phenanthrene *	1.073	1.039	1.053	0.962	0.926	1.011	6.3*
Anthracene *	1.041	1.017	1.057	0.954	0.916	0.997	6.0*
Di-n-Butylphthalate	1.519	1.642	1.588	1.451	1.375	1.515	7.0
Fluoranthene *	1.076	1.149	1.085	0.978	0.983	1.054	6.9*
Carbazole	0.987	0.987	1.021	0.947	0.947	0.978	3.2
Pyrene *	1.332	1.347	1.514	1.279	1.261	1.347	7.4*
Butylbenzylphthalate	0.788	0.845	0.902	0.830	0.775	0.828	6.1
3,3'-Dichlorobenzidine	0.316	0.275	0.350	0.446	0.430	0.363	20.2
Benzo(a)Anthracene *	1.126	1.171	1.248	1.081	1.022	1.130	7.6*
Chrysene *	0.959	1.033	1.084	1.075	1.020	1.034	4.8*
Bis(2-Ethylhexyl)Phthalate	1.030	1.059	1.044	0.911	0.763	0.961	13.1
Di-n-Octyl Phthalate	2.024	1.918	2.138	1.960	1.935	1.995	4.5
Benzo(b)Fluoranthene *	1.383	1.188	1.284	1.356	1.299	1.302	5.8*
Benzo(k)Fluoranthene *	0.947	1.059	1.206	0.915	0.938	1.013	12.0*
Benzo(a)Pyrene *	1.035	1.032	1.117	1.037	1.012	1.047	3.9*
Indeno(1,2,3-cd)Pyrene *	0.804	1.079	1.087	1.111	1.070	1.030	12.4*
Dibenzo(a,h)Anthracene *	0.638	0.852	0.863	0.882	0.842	0.815	12.3*
Benzo(g,h,i)Perylene *	0.614	0.896	0.881	0.912	0.887	0.838	15.0*
Nitrobenzene-d5 *	0.385	0.394	0.430	0.437	0.427	0.415	5.6*
2-Fluorobiphenyl *	1.371	1.356	1.288	1.313	1.259	1.317	3.5*
Terphenyl-d14 *	0.816	0.835	0.937	0.863	0.777	0.846	7.1*
Phenol-d5 *	1.476	1.497	1.656	1.802	1.519	1.590	8.7*
2-Fluorophenol *	1.186	1.238	1.401	1.404	1.337	1.313	7.5*
2,4,6-Tribromophenol	0.234	0.279	0.356	0.302	0.349	0.304	16.7
2-Chlorophenol-d4 *	1.239	1.286	1.418	1.414	1.248	1.321	6.7*
1,2-Dichlorobenzene-d4 *	0.815	0.846	0.904	0.807	0.737	0.822	7.4*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D3-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Instrument ID: MS10 Calibration date: 01/06/95 Time: 1959

Lab File ID: J8597 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

Associated Samples SBLKJF

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.754	1.726	0.800	1.6	25.0
bis(2-Chloroethyl)Ether	1.650	1.496	0.700	9.3	25.0
2-Chlorophenol	1.363	1.292	0.800	5.2	25.0
1,3-Dichlorobenzene	1.478	1.438	0.600	2.7	25.0
1,4-Dichlorobenzene	1.479	1.450	0.500	2.0	25.0
1,2-Dichlorobenzene	1.350	1.316	0.400	2.5	25.0
2-Methylphenol	1.108	1.076	0.700	2.9	25.0
2,2'-oxybis(1-Chloropropane)	2.200	1.831		19.7	
4-Methylphenol	1.107	1.111	0.600	-0.4	25.0
N-Nitroso-Di-n-Propylamine	1.123	1.003	0.500	10.7	25.0
Hexachloroethane	0.643	0.641	0.300	0.3	25.0
Nitrobenzene	0.431	0.419	0.200	2.8	25.0
Isophorone	0.945	0.933	0.400	1.3	25.0
2-Nitrophenol	0.246	0.189	0.100	23.2	25.0
2,4-Dimethylphenol	0.369	0.405	0.200	-9.8	25.0
bis(2-Chloroethoxy)Methane	0.549	0.564	0.300	-2.7	25.0
2,4-Dichlorophenol	0.341	0.331	0.200	2.9	25.0
1,2,4-Trichlorobenzene	0.378	0.381	0.200	-0.8	25.0
Naphthalene	0.992	0.994	0.700	-0.2	25.0
4-Chloroaniline	0.434	0.098		77.4	
Hexachlorobutadiene	0.227	0.234		-3.1	
4-Chloro-3-Methylphenol	0.381	0.338	0.200	11.3	25.0
2-Methylnaphthalene	0.630	0.600	0.400	4.8	25.0
Hexachlorocyclopentadiene	0.394	0.415		-5.3	
2,4,6-Trichlorophenol	0.514	0.490	0.200	4.7	25.0
2,4,5-Trichlorophenol	0.560	0.530	0.200	5.4	25.0
2-Chloronaphthalene	1.245	1.296	0.800	-4.1	25.0
2-Nitroaniline	0.563	0.362		35.7	
Dimethyl Phthalate	1.733	1.604		7.4	
Acenaphthylene	1.940	1.932	1.300	0.4	25.0
2,6-Dinitrotoluene	0.428	0.314	0.200	26.6	25.0
3-Nitroaniline	0.444	0.039		91.2	
Acenaphthene	1.191	1.191	0.800	0.0	25.0
2,4-Dinitrophenol	0.276	0.093		66.3	
4-Nitrophenol	0.210	0.112		46.7	
Dibenzofuran	1.623	1.653	0.800	-1.8	25.0
2,4-Dinitrotoluene	0.545	0.355	0.200	34.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D3-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Instrument ID: MS10 Calibration date: 01/06/95 Time: 1959

Lab File ID: JB597 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.710	1.539		10.0	
4-Chlorophenyl-phenylether	0.604	0.621	0.400	-2.8	25.0
Fluorene	1.142	1.119	0.900	2.0	25.0
4-Nitroaniline	0.456	0.116		74.6	
4,6-Dinitro-2-Methylphenol	0.202	0.116		42.6	
N-Nitrosodiphenylamine (1)	0.502	0.511		-1.8	
4-Bromophenyl-phenylether	0.240	0.258	0.100	-7.5	25.0
Hexachlorobenzene	0.325	0.346	0.100	-6.5	25.0
Pentachlorophenol	0.205	0.127	0.050	38.0	25.0
Phenanthrene	1.011	1.022	0.700	-1.1	25.0
Anthracene	0.997	0.992	0.700	0.5	25.0
Di-n-Butylphthalate	1.515	1.499		1.1	
Fluoranthene	1.054	0.957	0.600	9.2	25.0
Carbazole	0.978	0.677		30.8	
Pyrene	1.347	1.580	0.600	-17.3	25.0
Butylbenzylphthalate	0.828	0.903		-9.1	
3,3'-Dichlorobenzidine	0.363	0.055		84.8	
Benzo(a)Anthracene	1.130	1.120	0.800	0.9	25.0
Chrysene	1.034	1.146	0.700	-10.8	25.0
bis(2-Ethylhexyl)Phthalate	0.961	1.247		-29.8	
Di-n-Octyl Phthalate	1.995	2.349		-17.7	
Benzo(b)Fluoranthene	1.302	1.114	0.700	14.4	25.0
Benzo(k)Fluoranthene	1.013	1.234	0.700	-21.8	25.0
Benzo(a)Pyrene	1.047	1.052	0.700	-0.5	25.0
Indeno(1,2,3-cd)Pyrene	1.030	0.937	0.500	9.0	25.0
Dibenzo(a,h)Anthracene	0.815	0.752	0.400	7.7	25.0
Benzo(g,h,i)Perylene	0.838	0.799	0.500	4.7	25.0
Nitrobenzene-d5	0.415	0.375	0.200	9.6	25.0
2-Fluorobiphenyl	1.317	1.414	0.700	-7.4	25.0
Terphenyl-d14	0.846	0.967	0.500	-14.3	25.0
Phenol-d5	1.590	1.524	0.800	4.2	25.0
2-Fluorophenol	1.313	1.219	0.600	7.2	25.0
2,4,6-Tribromophenol	0.304	0.217		28.6	
2-Chlorophenol-d4	1.321	1.270	0.800	3.9	25.0
1,2-Dichlorobenzene-d4	0.822	0.812	0.400	1.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0081

Lab Code: CEIMIC Case No.: 23004 SAS No.: SDG No.: CPS40

Instrument ID: MS10 Calibration date: 01/11/95 Time: 1137

Lab File ID: J3697 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

Associated Samples

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Phenol	1.754	1.757	0.800	-0.2	25.0	
bis(2-Chloroethyl)Ether	1.650	1.638	0.700	0.7	25.0	CPS40
2-Chlorophenol	1.363	1.339	0.800	1.8	25.0	CPS41
1,3-Dichlorobenzene	1.478	1.508	0.600	-2.0	25.0	CPS43
1,4-Dichlorobenzene	1.479	1.451	0.500	1.9	25.0	
1,2-Dichlorobenzene	1.350	1.374	0.400	-1.8	25.0	
2-Methylphenol	1.108	1.097	0.700	1.0	25.0	
2,2'-oxybis(1-Chloropropane)	2.280	2.967		-30.1		
4-Methylphenol	1.107	1.058	0.600	4.4	25.0	
N-Nitroso-Di-n-Propylamine	1.123	1.098	0.500	2.2	25.0	
Hexachloroethane	0.643	0.636	0.300	1.1	25.0	
Nitrobenzene	0.431	0.479	0.200	-11.1	25.0	
Isophorone	0.945	0.956	0.400	-1.2	25.0	
2-Nitrophenol	0.246	0.257	0.100	-4.5	25.0	
2,4-Dimethylphenol	0.369	0.388	0.200	-5.1	25.0	
bis(2-Chloroethoxy)Methane	0.549	0.564	0.300	-2.7	25.0	
2,4-Dichlorophenol	0.341	0.335	0.200	1.8	25.0	
1,2,4-Trichlorobenzene	0.378	0.382	0.200	-1.1	25.0	
Naphthalene	0.992	1.018	0.700	-2.6	25.0	
4-Chloroaniline	0.434	0.438		-0.9		
Hexachlorobutadiene	0.227	0.227		0.0		
4-Chloro-3-Methylphenol	0.381	0.364	0.200	4.5	25.0	
2-Methylnaphthalene	0.630	0.625	0.400	0.8	25.0	
Hexachlorocyclopentadiene	0.394	0.397		-0.8		
2,4,6-Trichlorophenol	0.514	0.498	0.200	3.1	25.0	
2,4,5-Trichlorophenol	0.560	0.540	0.200	3.6	25.0	
2-Chloronaphthalene	1.245	1.290	0.800	-3.6	25.0	
2-Nitroaniline	0.563	0.516		8.3		
Dimethyl Phthalate	1.733	1.615		6.8		
Acenaphthylene	1.940	1.960	1.300	-1.0	25.0	
2,6-Dinitrotoluene	0.428	0.397	0.200	7.2	25.0	
3-Nitroaniline	0.444	0.373		16.0		
Acenaphthene	1.191	1.193	0.800	-0.2	25.0	
2,4-Dinitrophenol	0.276	0.150		45.6		
4-Nitrophenol	0.210	0.126		40.0		
Dibenzofuran	1.623	1.694	0.800	-4.4	25.0	
2,4-Dinitrotoluene	0.545	0.515	0.200	5.5	25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMIC CORP Contract: 68-D0-0021

Lab Code: CHEMIC Case No.: 33084 SAS No.: SDG No.: CPS40

Instrument ID: MS10 Calibration date: 01/11/95 Time: 1137

Lab File ID: CD697 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.710	1.659		3.0	
4-Chlorophenyl-phenylether	0.604	0.658	0.400	-8.9	25.0
Fluorene	1.142	1.224	0.900	-7.2	25.0
4-Nitroaniline	0.456	0.359		21.3	
4,6-Dinitro-2-Methylphenol	0.202	0.173		14.4	
N-Nitrosodiphenylamine (1)	0.502	0.551		-9.8	
4-Bromophenyl-phenylether	0.240	0.248	0.100	-3.3	25.0
Hexachlorobenzene	0.325	0.341	0.100	-4.9	25.0
Pentachlorophenol	0.205	0.150	0.050	26.8	25.0
Phenanthrene	1.011	1.027	0.700	-1.6	25.0
Anthracene	0.997	1.042	0.700	-4.5	25.0
Di-n-Butylphthalate	1.515	1.698		-12.1	
Fluoranthene	1.054	1.148	0.600	-8.9	25.0
Carbazole	0.978	0.977		0.1	
Pyrene	1.347	1.394	0.600	-3.5	25.0
Butylbenzylphthalate	0.828	0.925		-11.7	
3,3'-Dichlorobenzidine	0.363	0.290		20.1	
Benzo(a)Anthracene	1.130	1.164	0.800	-3.0	25.0
Chrysene	1.034	1.059	0.700	-2.4	25.0
bis(2-Ethylhexyl)Phthalate	0.961	1.190		-23.8	
Di-n-Octyl Phthalate	1.995	2.135		-7.0	
Benzo(b)Fluoranthene	1.302	1.315	0.700	-1.0	25.0
Benzo(k)Fluoranthene	1.013	0.975	0.700	3.8	25.0
Benzo(a)Pyrene	1.047	1.066	0.700	-1.8	25.0
Indeno(1,2,3-cd)Pyrene	1.030	1.100	0.500	-6.8	25.0
Dibenzo(a,h)Anthracene	0.815	0.870	0.400	-6.7	25.0
Benzo(g,h,i)Perylene	0.838	0.881	0.500	-5.1	25.0
Nitrobenzene-d5	0.415	0.446	0.200	-7.5	25.0
2-Fluorobiphenyl	1.317	1.371	0.700	-4.1	25.0
Terphenyl-d14	0.846	0.905	0.500	-7.0	25.0
Phenol-d5	1.590	1.558	0.800	2.0	25.0
2-Fluorophenol	1.313	1.303	0.600	0.8	25.0
2,4,6-Tribromophenol	0.304	0.268		11.8	
2-Chlorophenol-d4	1.321	1.320	0.800	0.1	25.0
1,2-Dichlorobenzene-d4	0.822	0.804	0.400	2.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Instrument ID: MS10 Calibration date: 01/13/95 Time: 1226

Lab File ID: JB734 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

Associated Samples CPS42

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.754	1.820	0.800	-3.8	25.0
bis(2-Chloroethyl)Ether	1.650	1.635	0.700	0.9	25.0
2-Chlorophenol	1.363	1.290	0.800	5.4	25.0
1,3-Dichlorobenzene	1.478	1.415	0.600	4.3	25.0
1,4-Dichlorobenzene	1.479	1.428	0.500	3.4	25.0
1,2-Dichlorobenzene	1.350	1.293	0.400	4.2	25.0
2-Methylphenol	1.108	1.118	0.700	-0.9	25.0
2,2'-oxybis(1-Chloropropane)	2.280	3.160		-38.6	
4-Methylphenol	1.107	1.125	0.600	-1.6	25.0
N-Nitroso-Di-n-Propylamine	1.123	1.144	0.500	-1.9	25.0
Hexachloroethane	0.643	0.617	0.300	4.0	25.0
Nitrobenzene	0.431	0.465	0.200	-7.9	25.0
Isophorone	0.945	0.946	0.400	-0.1	25.0
2-Nitrophenol	0.246	0.258	0.100	-4.9	25.0
2,4-Dimethylphenol	0.369	0.378	0.200	-2.4	25.0
bis(2-Chloroethoxy)Methane	0.549	0.572	0.300	-4.2	25.0
2,4-Dichlorophenol	0.341	0.349	0.200	-2.3	25.0
1,2,4-Trichlorobenzene	0.378	0.374	0.200	1.1	25.0
Naphthalene	0.992	1.059	0.700	-6.8	25.0
4-Chloroaniline	0.434	0.484		-11.5	
Hexachlorobutadiene	0.227	0.218		4.0	
4-Chloro-3-Methylphenol	0.381	0.382	0.200	-0.3	25.0
2-Methylnaphthalene	0.630	0.646	0.400	-2.5	25.0
Hexachlorocyclopentadiene	0.394	0.346		12.2	
2,4,6-Trichlorophenol	0.514	0.494	0.200	3.9	25.0
2,4,5-Trichlorophenol	0.560	0.538	0.200	3.9	25.0
2-Chloronaphthalene	1.245	1.230	0.800	1.2	25.0
2-Nitroaniline	0.563	0.547		2.8	
Dimethyl Phthalate	1.733	1.555		10.3	
Acenaphthylene	1.940	1.897	1.300	2.2	25.0
2,6-Dinitrotoluene	0.428	0.411	0.200	4.0	25.0
3-Nitroaniline	0.444	0.422		5.0	
Acenaphthene	1.191	1.177	0.800	1.2	25.0
2,4-Dinitrophenol	0.276	0.210		23.9	
4-Nitrophenol	0.210	0.146		30.5	
Dibenzofuran	1.623	1.618	0.800	0.3	25.0
2,4-Dinitrotoluene	0.545	0.506	0.200	7.2	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

nstrument ID: MS10 Calibration date: 01/13/95 Time: 1226

ab File ID: JB734 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.710	1.540		9.9	
4-Chlorophenyl-phenylether	0.604	0.594	0.400	1.7	25.0
Fluorene	1.142	1.103	0.900	3.4	25.0
4-Nitroaniline	0.456	0.418		8.3	
4,6-Dinitro-2-Methylphenol	0.202	0.200		1.0	
N-Nitrosodiphenylamine (1)	0.502	0.554		-10.4	
4-Bromophenyl-phenylether	0.240	0.256	0.100	-6.7	25.0
Hexachlorobenzene	0.325	0.327	0.100	-0.6	25.0
Pentachlorophenol	0.205	0.161	0.050	21.5	25.0
Phenanthrene	1.011	1.008	0.700	0.3	25.0
Anthracene	0.997	1.025	0.700	-2.8	25.0
Di-n-Butylphthalate	1.515	1.418		6.4	
Fluoranthene	1.054	1.052	0.600	0.2	25.0
Carbazole	0.978	1.029		-5.2	
Pyrene	1.347	1.596	0.600	-18.5	25.0
Butylbenzylphthalate	0.828	0.937		-13.2	
3,3'-Dichlorobenzidine	0.363	0.291		19.8	
Benzo(a)Anthracene	1.130	1.118	0.800	1.1	25.0
Chrysene	1.034	1.082	0.700	-4.6	25.0
bis(2-Ethylhexyl)Phthalate	0.961	1.130		-17.6	
Di-n-Octyl Phthalate	1.995	4.581		-129.6	
Benzo(b)Fluoranthene	1.302	1.604	0.700	-23.2	25.0
Benzo(k)Fluoranthene	1.013	1.226	0.700	-21.0	25.0
Benzo(a)Pyrene	1.047	1.081	0.700	-3.2	25.0
Indeno(1,2,3-cd)Pyrene	1.030	0.775	0.500	24.8	25.0
Dibenzo(a,h)Anthracene	0.815	0.631	0.400	22.6	25.0
Benzo(g,h,i)Perylene	0.838	0.621	0.500	25.9	25.0
Nitrobenzene-d5	0.415	0.443	0.200	-6.7	25.0
2-Fluorobiphenyl	1.317	1.300	0.700	1.3	25.0
Terphenyl-d14	0.846	0.986	0.500	-16.6	25.0
Phenol-d5	1.590	1.565	0.800	1.6	25.0
2-Fluorophenol	1.313	1.263	0.600	3.8	25.0
2,4,6-Tribromophenol	0.304	0.261		14.1	
2-Chlorophenol-d4	1.321	1.265	0.800	4.2	25.0
1,2-Dichlorobenzene-d4	0.822	0.781	0.400	5.0	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 22084 SAS No.: SDG No.: CPS40

Instrument ID: M21 Calibration Date(s): 01/09/95 01/09/95

Calibration Times: 1547 2031

LAB FILE ID: RRF20 = AF763 RRF50 = AF761
RRF80 = AF766 RRF120= AF764 RRF160= AF765

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol *	1.766	1.900	1.902	1.950	1.932	1.870	4.4*
bis(2-Chloroethyl)Ether *	1.466	1.469	1.605	1.586	1.498	1.525	4.3*
2-Chlorophenol *	1.142	1.238	1.343	1.330	1.275	1.266	6.4*
1,3-Dichlorobenzene *	1.367	1.403	1.556	1.409	1.432	1.433	5.1*
1,4-Dichlorobenzene *	1.416	1.442	1.645	1.496	1.509	1.502	5.9*
1,2-Dichlorobenzene *	1.341	1.339	1.533	1.420	1.428	1.412	5.6*
2-Methylphenol *	0.985	1.137	1.339	1.335	1.338	1.207	12.4*
2,2'-oxybis(1-Chloropropane)	2.062	2.141	2.476	2.519	2.338	2.307	8.7
4-Methylphenol *	1.153	1.243	1.465	1.488	1.366	1.343	10.7*
N-Nitroso-Di-n-Propylamine *	1.125	1.193	1.507	1.545	1.428	1.360	13.9*
Hexachloroethane *	0.606	0.631	0.716	0.644	0.697	0.659	7.0*
Nitrobenzene *	0.328	0.381	0.449	0.411	0.421	0.398	11.6*
Isophorone *	0.713	0.793	0.921	0.938	0.869	0.847	11.1*
2-Nitrophenol *	0.169	0.212	0.272	0.237	0.230	0.224	16.8*
2,4-Dimethylphenol *	0.214	0.351	0.355	0.353	0.349	0.324	19.1*
bis(2-Chloroethoxy)Methane *	0.455	0.485	0.570	0.547	0.526	0.517	9.0*
2,4-Dichlorophenol *	0.257	0.303	0.359	0.328	0.325	0.314	12.0*
1,2,4-Trichlorobenzene *	0.282	0.318	0.362	0.319	0.326	0.321	8.9*
Naphthalene *	0.900	0.985	1.095	0.972	0.976	0.986	7.1*
4-Chloroaniline	0.373	0.435	0.484	0.432	0.453	0.435	9.3
Hexachlorobutadiene	0.162	0.179	0.203	0.178	0.179	0.180	8.1
4-Chloro-3-Methylphenol *	0.293	0.348	0.438	0.395	0.377	0.370	14.6*
2-Methylnaphthalene *	0.622	0.666	0.745	0.690	0.725	0.690	7.0*
Hexachlorocyclopentadiene	0.259	0.331	0.365	0.351	0.383	0.338	14.2
2,4,6-Trichlorophenol *	0.357	0.400	0.458	0.417	0.421	0.411	8.9*
2,4,5-Trichlorophenol *		0.432	0.514	0.483	0.465	0.474	7.2*
2-Chloronaphthalene *	1.061	1.145	1.230	1.108	1.150	1.139	5.5*
2-Nitroaniline		0.485	0.616	0.595	0.593	0.572	10.3
Dimethyl Phthalate	1.330	1.542	1.802	1.853	1.696	1.645	12.9
Acenaphthylene *	1.750	1.979	2.067	1.960	1.924	1.936	6.0*
2,6-Dinitrotoluene *	0.275	0.353	0.412	0.409	0.380	0.366	15.3*
3-Nitroaniline		0.470	0.540	0.546	0.529	0.521	6.7
Acenaphthene *	1.161	1.264	1.412	1.298	1.300	1.287	7.0*
2,4-Dinitrophenol		0.226	0.335	0.325	0.342	0.307	17.7
4-Nitrophenol		0.188	0.232	0.229	0.228	0.219	9.5
Dibenzofuran *	1.600	1.789	2.060	1.782	1.636	1.773	10.2*
2,4-Dinitrotoluene *	0.453	0.536	0.715	0.713	0.614	0.606	18.8*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: [illegible] Contract: [illegible]

Lab Code: CTIMIC Case No.: 33084 SAS No.: SDG No.: CPS40

Instrument ID: MS1 Calibration Date(s): 01/09/95 01/09/95

Calibration Times: 1547 2031

LAB FILE ID: RRF20 = AF762 RRF50 = AF761
RRF80 = AF766 RRF120= AF764 RRF160= AF765

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Diethylphthalate	1.536	1.705	1.946	1.985	1.758	1.786	10.3
4-Chlorophenyl-phenylether *	0.649	0.733	0.789	0.760	0.724	0.731	7.2*
Fluorene *	1.305	1.465	1.602	1.544	1.394	1.462	8.1*
4-Nitroaniline		0.530	0.677	0.684	0.650	0.635	11.3
4,6-Dinitro-2-Methylphenol		0.157	0.199	0.211	0.200	0.192	12.4
N-Nitrosodiphenylamine (1)	0.484	0.505	0.506	0.534	0.487	0.503	4.0
4-Bromophenyl-phenylether *	0.205	0.217	0.224	0.215	0.207	0.214	3.6*
Hexachlorobenzene *	0.266	0.276	0.293	0.278	0.270	0.277	3.7*
Pentachlorophenol *		0.175	0.200	0.199	0.193	0.192	6.0*
Phenanthrene *	1.071	1.101	1.022	1.030	0.965	1.038	5.0*
Anthracene *	1.112	1.117	1.087	1.150	0.981	1.089	5.9*
Di-n-Butylphthalate	1.596	1.742	1.748	1.945	1.642	1.735	7.7
Fluoranthene *	1.246	1.318	1.317	1.354	1.206	1.288	4.7*
Carbazole	1.154	1.154	1.221	1.236	1.095	1.172	4.9
Pyrene *	1.147	1.263	1.391	1.407	1.377	1.317	8.4*
Butylbenzylphthalate	0.628	0.703	0.856	0.892	0.862	0.788	14.7
3,3'-Dichlorobenzidine	0.389	0.432	0.481	0.439	0.466	0.441	8.0
Benzo(a)Anthracene *	1.020	1.107	1.209	1.182	1.158	1.135	6.6*
Chrysene *	1.078	1.181	1.272	1.263	1.235	1.206	6.6*
bis(2-Ethylhexyl)Phthalate	0.959	1.065	1.288	1.249	1.274	1.167	12.6
Di-n-Octyl Phthalate	1.624	1.855	2.118	2.176	1.911	1.937	11.4
Benzo(b)Fluoranthene *	1.220	1.262	1.308	1.235	1.200	1.245	3.4*
Benzo(k)Fluoranthene *	1.090	1.117	1.282	1.220	1.116	1.165	7.1*
Benzo(a)Pyrene *	1.061	1.098	1.151	1.125	1.088	1.105	3.1*
Indeno(1,2,3-cd)Pyrene *	0.943	0.926	1.025	1.007	1.057	0.992	5.6*
Dibenzo(a,h)Anthracene *	0.980	0.944	1.018	1.009	1.016	0.993	3.2*
Benzo(g,h,i)Perylene *	0.997	0.957	1.008	0.997	1.028	0.997	2.6*
Nitrobenzene-d5 *	0.290	0.325	0.418	0.392	0.405	0.368	14.6*
2-Fluorobiphenyl *	1.103	1.258	1.297	1.258	1.198	1.223	6.2*
Terphenyl-d14 *	0.712	0.755	0.816	0.949	0.822	0.811	11.0*
Phenol-d5 *	1.553	1.586	1.839	1.833	1.767	1.716	8.0*
2-Fluorophenol *	0.998	1.042	1.211	1.216	1.190	1.131	9.1*
2,4,6-Tribromophenol	0.275	0.311	0.403	0.386	0.372	0.349	15.5
2-Chlorophenol-d4 *	1.128	1.155	1.362	1.344	1.313	1.260	8.8*
1,2-Dichlorobenzene-d4 *	0.794	0.810	0.952	0.855	0.904	0.863	7.6*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMIC CORP Contract: 68-D8-0021

Lab Code: CHEMIC Case No.: 22084 SAS No.: SDG No.: CP340

Instrument ID: MS1 Calibration date: 01/12/95 Time: 1128

Lab File ID: 9F814 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

Associated Samples

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Phenol	1.870	1.700	0.800	9.1	25.0	
bis(2-Chloroethyl)Ether	1.525	1.432	0.700	6.1	25.0	SBLKAI
2-Chlorophenol	1.266	1.282	0.800	-1.3	25.0	cps 35 MS
1,3-Dichlorobenzene	1.433	1.448	0.600	-1.0	25.0	cps 35 MSD
1,4-Dichlorobenzene	1.502	1.481	0.500	1.4	25.0	cps 56
1,2-Dichlorobenzene	1.412	1.434	0.400	-1.6	25.0	cps 36
2-Methylphenol	1.207	1.192	0.700	1.2	25.0	cps 37
2,2'-oxybis(1-Chloropropane)	2.307	2.028		12.1		cps 38
4-Methylphenol	1.343	1.308	0.600	2.6	25.0	cps 39
N-Nitroso-Di-n-Propylamine	1.360	1.168	0.500	14.1	25.0	
Hexachloroethane	0.659	0.616	0.300	6.5	25.0	
Nitrobenzene	0.398	0.413	0.200	-3.8	25.0	
Isophorone	0.847	0.811	0.400	4.2	25.0	
2-Nitrophenol	0.224	0.231	0.100	-3.1	25.0	
2,4-Dimethylphenol	0.324	0.331	0.200	-2.2	25.0	
bis(2-Chloroethoxy)Methane	0.517	0.500	0.300	3.3	25.0	
2,4-Dichlorophenol	0.314	0.315	0.200	-0.3	25.0	
1,2,4-Trichlorobenzene	0.321	0.323	0.200	-0.6	25.0	
Naphthalene	0.986	0.994	0.700	-0.8	25.0	
4-Chloroaniline	0.435	0.460		-5.7		
Hexachlorobutadiene	0.180	0.177		1.7		
4-Chloro-3-Methylphenol	0.370	0.341	0.200	7.8	25.0	
2-Methylnaphthalene	0.690	0.661	0.400	4.2	25.0	
Hexachlorocyclopentadiene	0.338	0.355		-5.0		
2,4,6-Trichlorophenol	0.411	0.425	0.200	-3.4	25.0	
2,4,5-Trichlorophenol	0.474	0.465	0.200	1.9	25.0	
2-Chloronaphthalene	1.139	1.168	0.800	-2.5	25.0	
2-Nitroaniline	0.572	0.533		6.8		
Dimethyl Phthalate	1.645	1.504		8.6		
Acenaphthylene	1.936	1.970	1.300	-1.8	25.0	
2,6-Dinitrotoluene	0.366	0.354	0.200	3.3	25.0	
3-Nitroaniline	0.521	0.448		14.0		
Acenaphthene	1.287	1.286	0.800	0.1	25.0	
2,4-Dinitrophenol	0.307	0.257		16.3		
4-Nitrophenol	0.219	0.171		21.9		
Dibenzofuran	1.773	1.744	0.800	1.6	25.0	
2,4-Dinitrotoluene	0.606	0.521	0.200	14.0	25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

70

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D0-0021

Lab Code: CEIMIC Case No.: 23004 SAS No.: SDG No.: CPS40

Instrument ID: MS1 Calibration date: 01/12/95 Time: 1128

Lab File ID: AF814 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.541		13.7	
4-Chlorophenyl-phenylether	0.731	0.683	0.400	6.6	25.0
Fluorene	1.462	1.374	0.900	6.0	25.0
4-Nitroaniline	0.635	0.521		18.0	
4,6-Dinitro-2-Methylphenol	0.192	0.165		14.1	
N-Nitrosodiphenylamine (1)	0.503	0.536		-6.6	
4-Bromophenyl-phenylether	0.214	0.219	0.100	-2.3	25.0
Hexachlorobenzene	0.277	0.272	0.100	1.8	25.0
Pentachlorophenol	0.192	0.169	0.050	12.0	25.0
Phenanthrene	1.038	1.031	0.700	0.7	25.0
Anthracene	1.089	1.130	0.700	-3.8	25.0
Di-n-Butylphthalate	1.735	1.606		7.4	
Fluoranthene	1.288	1.200	0.600	6.8	25.0
Carbazole	1.172	1.138		2.9	
Pyrene	1.317	1.217	0.600	7.6	25.0
Butylbenzylphthalate	0.788	0.740		6.1	
3,3'-Dichlorobenzidine	0.441	0.454		-2.9	
Benzo(a)Anthracene	1.135	1.068	0.800	5.9	25.0
Chrysene	1.206	1.161	0.700	3.7	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.107		5.1	
Di-n-Octyl Phthalate	1.937	1.766		8.8	
Benzo(b)Fluoranthene	1.245	1.148	0.700	7.8	25.0
Benzo(k)Fluoranthene	1.165	1.095	0.700	6.0	25.0
Benzo(a)Pyrene	1.105	1.043	0.700	5.6	25.0
Indeno(1,2,3-cd)Pyrene	0.992	1.073	0.500	-8.2	25.0
Dibenzo(a,h)Anthracene	0.993	1.039	0.400	-4.6	25.0
Benzo(g,h,i)Perylene	0.997	1.046	0.500	-4.9	25.0
Nitrobenzene-d5	0.368	0.398	0.200	-8.2	25.0
2-Fluorobiphenyl	1.223	1.260	0.700	-3.0	25.0
Terphenyl-d14	0.811	0.744	0.500	8.3	25.0
Phenol-d5	1.716	1.657	0.800	3.4	25.0
2-Fluorophenol	1.131	1.159	0.600	-2.5	25.0
2,4,6-Tribromophenol	0.349	0.296		15.2	
2-Chlorophenol-d4	1.260	1.238	0.800	1.7	25.0
1,2-Dichlorobenzene-d4	0.863	0.847	0.400	1.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 22004 SAS No.: SDG No.: CPS40

Instrument ID: MS1 Calibration date: 01/11/95 Time: 1146

Lab File ID: QF800 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

Associated Samples CPS35

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.870	1.933	0.800	-3.4	25.0
bis(2-Chloroethyl)Ether	1.525	1.506	0.700	1.2	25.0
2-Chlorophenol	1.266	1.306	0.000	-3.2	25.0
1,3-Dichlorobenzene	1.433	1.484	0.600	-3.6	25.0
1,4-Dichlorobenzene	1.502	1.610	0.500	-7.2	25.0
1,2-Dichlorobenzene	1.412	1.426	0.400	-1.0	25.0
2-Methylphenol	1.207	1.213	0.700	-0.5	25.0
2,2'-oxybis(1-Chloropropane)	2.307	2.238		3.0	
4-Methylphenol	1.343	1.371	0.600	-2.1	25.0
N-Nitroso-Di-n-Propylamine	1.360	1.296	0.500	4.7	25.0
Hexachloroethane	0.659	0.638	0.300	3.2	25.0
Nitrobenzene	0.398	0.425	0.200	-6.8	25.0
Isophorone	0.847	0.846	0.400	0.1	25.0
2-Nitrophenol	0.224	0.242	0.100	-8.0	25.0
2,4-Dimethylphenol	0.324	0.329	0.200	-1.5	25.0
bis(2-Chloroethoxy)Methane	0.517	0.510	0.300	1.4	25.0
2,4-Dichlorophenol	0.314	0.310	0.200	1.3	25.0
1,2,4-Trichlorobenzene	0.321	0.328	0.200	-2.2	25.0
Naphthalene	0.986	0.974	0.700	1.2	25.0
4-Chloroaniline	0.435	0.472		-8.5	
Hexachlorobutadiene	0.180	0.175		2.8	
4-Chloro-3-Methylphenol	0.370	0.347	0.200	6.2	25.0
2-Methylnaphthalene	0.690	0.662	0.400	4.1	25.0
Hexachlorocyclopentadiene	0.338	0.369		-9.2	
2,4,6-Trichlorophenol	0.411	0.411	0.200	0.0	25.0
2,4,5-Trichlorophenol	0.474	0.460	0.200	3.0	25.0
2-Chloronaphthalene	1.139	1.213	0.800	-6.5	25.0
2-Nitroaniline	0.572	0.622		-8.7	
Dimethyl Phthalate	1.645	1.532		6.9	
Acenaphthylene	1.936	1.902	1.300	1.8	25.0
2,6-Dinitrotoluene	0.366	0.368	0.200	-0.5	25.0
3-Nitroaniline	0.521	0.468		10.2	
Acenaphthene	1.287	1.298	0.800	-0.9	25.0
2,4-Dinitrophenol	0.307	0.304		1.0	
4-Nitrophenol	0.219	0.200		8.7	
Dibenzofuran	1.773	1.785	0.800	-0.7	25.0
2,4-Dinitrotoluene	0.606	0.582	0.200	4.0	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL (Red)

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 22084 SAS No.: SDG No.: CP040

Instrument ID: MS1 Calibration date: 01/11/95 Time: 1146

Lab File ID: BF800 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.609		9.9	
4-Chlorophenyl-phenylether	0.721	0.685	0.400	6.3	25.0
Fluorene	1.462	1.416	0.900	3.1	25.0
4-Nitroaniline	0.635	0.560		11.8	
4,6-Dinitro-2-Methylphenol	0.192	0.178		7.3	
N-Nitrosodiphenylamine (1)	0.503	0.512		-1.8	
4-Bromophenyl-phenylether	0.214	0.205	0.100	4.2	25.0
Hexachlorobenzene	0.277	0.254	0.100	8.3	25.0
Pentachlorophenol	0.192	0.179	0.050	6.8	25.0
Phenanthrene	1.038	1.038	0.700	0.0	25.0
Anthracene	1.089	1.086	0.700	0.3	25.0
Di-n-Butylphthalate	1.735	1.639		5.5	
Fluoranthene	1.288	1.191	0.600	7.5	25.0
Carbazole	1.172	1.110		5.3	
Pyrene	1.317	1.194	0.600	9.3	25.0
Butylbenzylphthalate	0.788	0.776		1.5	
3,3'-Dichlorobenzidine	0.441	0.424		3.9	
Benzo(a)Anthracene	1.135	1.069	0.800	5.8	25.0
Chrysene	1.206	1.167	0.700	3.2	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.184		-1.5	
Di-n-Octyl Phthalate	1.937	1.795		7.3	
Benzo(b)Fluoranthene	1.245	1.201	0.700	3.5	25.0
Benzo(k)Fluoranthene	1.165	1.054	0.700	9.5	25.0
Benzo(a)Pyrene	1.105	1.060	0.700	4.1	25.0
Indeno(1,2,3-cd)Pyrene	0.992	1.100	0.500	-10.9	25.0
Dibenzo(a,h)Anthracene	0.993	1.036	0.400	-4.3	25.0
Benzo(g,h,i)Perylene	0.997	1.060	0.500	-6.3	25.0
Nitrobenzene-d5	0.368	0.414	0.200	-12.5	25.0
2-Fluorobiphenyl	1.223	1.257	0.700	-2.8	25.0
Terphenyl-d14	0.811	0.748	0.500	7.8	25.0
Phenol-d5	1.716	1.801	0.800	-5.0	25.0
2-Fluorophenol	1.131	1.206	0.600	-6.6	25.0
2,4,6-Tribromophenol	0.349	0.309		11.5	
2-Chlorophenol-d4	1.260	1.311	0.800	-4.0	25.0
1,2-Dichlorobenzene-d4	0.863	0.897	0.400	-3.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL

77

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D1-0021

Lab File: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Instrument ID: MS1 Calibration date: 01/09/95 Time: 1157

Lab File ID: BF768 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

Associated Samples SBLKAC

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.870	1.844	0.800	1.4	25.0
bis(2-Chloroethyl)Ether	1.525	1.381	0.700	9.4	25.0
2-Chlorophenol	1.266	1.210	0.800	4.4	25.0
1,3-Dichlorobenzene	1.433	1.370	0.600	4.4	25.0
1,4-Dichlorobenzene	1.502	1.414	0.500	5.9	25.0
1,2-Dichlorobenzene	1.412	1.378	0.400	2.4	25.0
2-Methylphenol	1.207	1.147	0.700	5.0	25.0
2,2'-oxybis(1-Chloropropane)	2.307	2.163		6.2	
4-Methylphenol	1.343	1.267	0.600	5.7	25.0
N-Nitroso-Di-n-Propylamine	1.360	1.214	0.500	10.7	25.0
Hexachloroethane	0.659	0.600	0.300	9.0	25.0
Nitrobenzene	0.398	0.388	0.200	2.5	25.0
Isophorone	0.847	0.822	0.400	3.0	25.0
2-Nitrophenol	0.224	0.214	0.100	4.5	25.0
2,4-Dimethylphenol	0.324	0.335	0.200	-3.4	25.0
bis(2-Chloroethoxy)Methane	0.517	0.508	0.300	1.7	25.0
2,4-Dichlorophenol	0.314	0.317	0.200	-1.0	25.0
1,2,4-Trichlorobenzene	0.321	0.341	0.200	-6.2	25.0
Naphthalene	0.986	0.997	0.700	-1.1	25.0
4-Chloroaniline	0.435	0.447		-2.8	
Hexachlorobutadiene	0.180	0.185		-2.8	
4-Chloro-3-Methylphenol	0.370	0.345	0.200	6.8	25.0
2-Methylnaphthalene	0.690	0.721	0.400	-4.5	25.0
Hexachlorocyclopentadiene	0.338	0.313		7.4	
2,4,6-Trichlorophenol	0.411	0.405	0.200	1.5	25.0
2,4,5-Trichlorophenol	0.474	0.437	0.200	7.8	25.0
2-Chloronaphthalene	1.139	1.118	0.800	1.8	25.0
2-Nitroaniline	0.572	0.481		15.9	
Dimethyl Phthalate	1.645	1.523		7.4	
Acenaphthylene	1.936	1.933	1.300	0.2	25.0
2,6-Dinitrotoluene	0.366	0.332	0.200	9.3	25.0
3-Nitroaniline	0.521	0.469		10.0	
Acenaphthene	1.287	1.273	0.800	1.1	25.0
2,4-Dinitrophenol	0.307	0.218		29.0	
4-Nitrophenol	0.219	0.187		14.6	
Dibenzofuran	1.773	1.820	0.800	-2.7	25.0
2,4-Dinitrotoluene	0.606	0.543	0.200	10.4	25.0

All other compounds must meet a minimum RRF of 0.010.

422

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23004 SAS No.: SDG No.: CPS40

Instrument ID: MS1 Calibration Date: 01/09/95 Time: 0157

Lab File ID: QF768 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.646		7.8	
4-Chlorophenyl-phenylether	0.731	0.725	0.400	0.8	25.0
Fluorene	1.462	1.411	0.900	3.5	25.0
4-Nitroaniline	0.635	0.528		16.8	
4,6-Dinitro-2-Methylphenol	0.192	0.155		19.3	
N-Nitrosodiphenylamine (1)	0.503	0.469		6.8	
4-Bromophenyl-phenylether	0.214	0.206	0.100	3.7	25.0
Hexachlorobenzene	0.277	0.281	0.100	-1.4	25.0
Pentachlorophenol	0.192	0.183	0.050	4.7	25.0
Phenanthrene	1.038	1.123	0.700	-8.2	25.0
Anthracene	1.089	1.111	0.700	-2.0	25.0
Di-n-Butylphthalate	1.735	1.758		-1.3	
Fluoranthene	1.288	1.368	0.600	-6.2	25.0
Carbazole	1.172	1.145		2.3	
Pyrene	1.317	1.174	0.600	10.9	25.0
Butylbenzylphthalate	0.788	0.712		9.6	
3,3'-Dichlorobenzidine	0.441	0.418		5.2	
Benzo(a)Anthracene	1.135	1.094	0.800	3.6	25.0
Chrysene	1.206	1.159	0.700	3.9	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.054		9.7	
Di-n-Octyl Phthalate	1.937	1.777		8.3	
Benzo(b)Fluoranthene	1.245	1.212	0.700	2.7	25.0
Benzo(k)Fluoranthene	1.165	1.146	0.700	1.6	25.0
Benzo(a)Pyrene	1.105	1.074	0.700	2.8	25.0
Indeno(1,2,3-cd)Pyrene	0.992	1.005	0.500	-1.3	25.0
Dibenzo(a,h)Anthracene	0.993	1.069	0.400	-7.7	25.0
Benzo(g,h,i)Perylene	0.997	1.044	0.500	-4.7	25.0
Nitrobenzene-d5	0.368	0.356	0.200	3.3	25.0
2-Fluorobiphenyl	1.223	1.194	0.700	2.4	25.0
Terphenyl-d14	0.811	0.764	0.500	5.8	25.0
Phenol-d5	1.716	1.585	0.800	7.6	25.0
2-Fluorophenol	1.131	0.984	0.600	13.0	25.0
2,4,6-Tribromophenol	0.349	0.355		-1.7	
2-Chlorophenol-d4	1.260	1.114	0.800	11.6	25.0
1,2-Dichlorobenzene-d4	0.863	0.855	0.400	0.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS10 Calibration Date(s): 01/04/95 01/04/95

Calibration Times: 1127 1741

LAB FILE ID: RRF20 = JB535 RRF50 = JB530
RRF80 = JB532 RRF120= JB533 RRF160= JB534

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.668	1.679	1.840	1.954	1.631	1.754	7.8*
bis(2-Chloroethyl)Ether *	1.556	1.604	1.813	1.834	1.441	1.650	10.3*
2-Chlorophenol *	1.278	1.317	1.466	1.462	1.294	1.363	6.8*
1,3-Dichlorobenzene *	1.396	1.443	1.608	1.501	1.440	1.478	5.5*
1,4-Dichlorobenzene *	1.410	1.464	1.607	1.482	1.430	1.479	5.2*
1,2-Dichlorobenzene *	1.327	1.364	1.463	1.352	1.245	1.350	5.8*
2-Methylphenol *	0.991	1.068	1.176	1.282	1.021	1.108	10.8*
2,2'-oxybis(1-Chloropropane	1.997	2.078	2.345	2.687	2.294	2.280	11.8
4-Methylphenol *	1.038	1.082	1.177	1.244	0.993	1.107	9.3*
N-Nitroso-Di-n-Propylamine *	0.981	1.056	1.212	1.373	0.992	1.123	14.9*
Hexachloroethane *	0.589	0.628	0.707	0.662	0.630	0.643	6.9*
Nitrobenzene *	0.409	0.421	0.449	0.446	0.428	0.431	3.9*
Isophorone *	0.855	0.910	1.082	1.019	0.857	0.945	10.8*
2-Nitrophenol *	0.210	0.237	0.266	0.266	0.250	0.246	9.5*
2,4-Dimethylphenol *	0.301	0.358	0.407	0.406	0.371	0.369	11.8*
bis(2-Chloroethoxy)Methane *	0.512	0.533	0.594	0.584	0.523	0.549	6.8*
2,4-Dichlorophenol *	0.312	0.340	0.376	0.349	0.329	0.341	7.0*
1,2,4-Trichlorobenzene *	0.371	0.382	0.406	0.362	0.370	0.378	4.5*
Naphthalene *	0.971	1.006	1.072	0.966	0.943	0.992	5.1*
4-Chloroaniline	0.400	0.398	0.499	0.458	0.417	0.434	10.0
Hexachlorobutadiene	0.219	0.229	0.239	0.219	0.228	0.227	3.7
4-Chloro-3-Methylphenol *	0.329	0.354	0.466	0.402	0.356	0.381	14.2*
2-Methylnaphthalene *	0.599	0.635	0.720	0.627	0.567	0.630	9.1*
Hexachlorocyclopentadiene	0.298	0.406	0.353	0.441	0.470	0.394	17.5
2,4,6-Trichlorophenol *	0.484	0.510	0.533	0.526	0.518	0.514	3.7*
2,4,5-Trichlorophenol *		0.549	0.590	0.561	0.541	0.560	3.8*
2-Chloronaphthalene *	1.270	1.279	1.257	1.230	1.189	1.245	2.9*
2-Nitroaniline		0.493	0.615	0.569	0.575	0.563	9.0
Dimethyl Phthalate	1.591	1.664	1.974	1.726	1.710	1.733	8.3
Acenaphthylene *	1.889	1.966	2.067	1.903	1.876	1.940	4.1*
2,6-Dinitrotoluene *	0.348	0.399	0.497	0.442	0.454	0.428	13.3*
3-Nitroaniline		0.371	0.507	0.426	0.474	0.444	13.3
Acenaphthene *	1.189	1.208	1.268	1.152	1.138	1.191	4.3*
2,4-Dinitrophenol		0.228	0.315	0.260	0.303	0.276	14.5
4-Nitrophenol		0.171	0.231	0.204	0.234	0.210	14.0
Dibenzofuran *	1.641	1.669	1.739	1.528	1.540	1.623	5.5*
2,4-Dinitrotoluene *	0.456	0.534	0.642	0.527	0.564	0.545	12.4*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ORIGINAL (Red)

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS10 Calibration Date(s): 01/04/95 01/04/95

Calibration Times: 1127 1741

LAB FILE ID: RRF20 = JB535 RRF50 = JB530
RRF80 = JB532 RRF120= JB533 RRF160= JB534

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate	1.516	1.701	2.011	1.637	1.687	1.710	10.7
4-Chlorophenyl-phenylether *	0.622	0.663	0.660	0.537	0.539	0.604	10.4*
Fluorene *	1.181	1.220	1.261	1.006	1.040	1.142	9.9*
4-Nitroaniline		0.394	0.500	0.419	0.509	0.456	12.6
4,6-Dinitro-2-Methylphenol		0.180	0.214	0.205	0.208	0.202	7.4
-Nitrosodiphenylamine (1)	0.556	0.477	0.513	0.497	0.469	0.502	6.9
4-Bromophenyl-phenylether *	0.248	0.231	0.245	0.245	0.231	0.240	3.5*
Hexachlorobenzene *	0.335	0.317	0.340	0.317	0.314	0.325	3.7*
Pentachlorophenol *		0.192	0.215	0.203	0.209	0.205	4.8*
Phenanthrene *	1.073	1.039	1.053	0.962	0.926	1.011	6.3*
Anthracene *	1.041	1.017	1.057	0.954	0.916	0.997	6.0*
Di-n-Butylphthalate	1.519	1.642	1.588	1.451	1.375	1.515	7.0
Fluoranthene *	1.076	1.149	1.085	0.978	0.983	1.054	6.9*
Carbazole	0.987	0.987	1.021	0.947	0.947	0.978	3.2
Pyrene *	1.332	1.347	1.514	1.279	1.261	1.347	7.4*
Butylbenzylphthalate	0.788	0.845	0.902	0.830	0.775	0.828	6.1
3,3'-Dichlorobenzidine	0.316	0.275	0.350	0.446	0.430	0.363	20.2
Benzo(a)Anthracene *	1.126	1.171	1.248	1.081	1.022	1.130	7.6*
Chrysene *	0.959	1.033	1.084	1.075	1.020	1.034	4.8*
bis(2-Ethylhexyl)Phthalate	1.030	1.059	1.044	0.911	0.763	0.961	13.1
Di-n-Octyl Phthalate	2.024	1.918	2.138	1.960	1.935	1.995	4.5
nzo(b)Fluoranthene *	1.383	1.188	1.284	1.356	1.299	1.302	5.8*
Benzo(k)Fluoranthene *	0.947	1.059	1.206	0.915	0.938	1.013	12.0*
Benzo(a)Pyrene *	1.035	1.032	1.117	1.037	1.012	1.047	3.9*
Indeno(1,2,3-cd)Pyrene *	0.804	1.079	1.087	1.111	1.070	1.030	12.4*
Dibenzo(a,h)Anthracene *	0.638	0.852	0.863	0.882	0.842	0.815	12.3*
Benzo(g,h,i)Perylene *	0.614	0.896	0.881	0.912	0.887	0.838	15.0*
Nitrobenzene-d5 *	0.385	0.394	0.430	0.437	0.427	0.415	5.6*
2-Fluorobiphenyl *	1.371	1.356	1.288	1.313	1.259	1.317	3.5*
Terphenyl-d14 *	0.816	0.835	0.937	0.863	0.777	0.846	7.1*
Phenol-d5 *	1.476	1.497	1.656	1.802	1.519	1.590	8.7*
2-Fluorophenol *	1.186	1.238	1.401	1.404	1.337	1.313	7.5*
2,4,6-Tribromcphenol	0.234	0.279	0.356	0.302	0.349	0.304	16.7
2-Chlorophenol-d4 *	1.239	1.286	1.418	1.414	1.248	1.321	6.7*
1,2-Dichlorobenzene-d4 *	0.815	0.846	0.904	0.807	0.737	0.822	7.4*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS10 Calibration date: 01/17/95 Time: 1512

Lab File ID: JB797 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

Associated Samples SBLK5A

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.754	1.588	0.800	9.5	25.0
bis(2-Chloroethyl)Ether	1.650	1.579	0.700	4.3	25.0
2-Chlorophenol	1.363	1.243	0.800	8.8	25.0
1,3-Dichlorobenzene	1.478	1.484	0.600	-0.4	25.0
1,4-Dichlorobenzene	1.479	1.514	0.500	-2.4	25.0
1,2-Dichlorobenzene	1.350	1.364	0.400	-1.0	25.0
2-Methylphenol	1.108	0.958	0.700	13.5	25.0
2,2'-oxybis(1-Chloropropane)	2.280	2.832		-24.2	
4-Methylphenol	1.107	0.950	0.600	14.2	25.0
N-Nitroso-Di-n-Propylamine	1.123	0.945	0.500	15.8	25.0
Hexachloroethane	0.643	0.611	0.300	5.0	25.0
Nitrobenzene	0.431	0.453	0.200	-5.1	25.0
Isophorone	0.945	0.797	0.400	15.7	25.0
2-Nitrophenol	0.246	0.245	0.100	0.4	25.0
2,4-Dimethylphenol	0.369	0.342	0.200	7.3	25.0
bis(2-Chloroethoxy)Methane	0.549	0.517	0.300	5.8	25.0
2,4-Dichlorophenol	0.341	0.330	0.200	3.2	25.0
1,2,4-Trichlorobenzene	0.378	0.405	0.200	-7.1	25.0
Naphthalene	0.992	1.018	0.700	-2.6	25.0
4-Chloroaniline	0.434	0.391		9.9	
Hexachlorobutadiene	0.227	0.261		-15.0	
4-Chloro-3-Methylphenol	0.381	0.309	0.200	18.9	25.0
2-Methylnaphthalene	0.630	0.601	0.400	4.6	25.0
Hexachlorocyclopentadiene	0.394	0.411		-4.3	
2,4,6-Trichlorophenol	0.514	0.488	0.200	5.1	25.0
2,4,5-Trichlorophenol	0.560	0.512	0.200	8.6	25.0
2-Chloronaphthalene	1.245	1.288	0.800	-3.5	25.0
2-Nitroaniline	0.563	0.432		23.3	
Dimethyl Phthalate	1.733	1.496		13.7	
Acenaphthylene	1.940	1.894	1.300	2.4	25.0
2,6-Dinitrotoluene	0.428	0.356	0.200	16.8	25.0
3-Nitroaniline	0.444	0.315		29.0	
Acenaphthene	1.191	1.170	0.800	1.8	25.0
2,4-Dinitrophenol	0.276	0.148		46.4	
4-Nitrophenol	0.210	0.102		51.4	
Dibenzofuran	1.623	1.665	0.800	-2.6	25.0
2,4-Dinitrotoluene	0.545	0.484	0.200	11.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

883

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS10 Calibration date: 01/17/95 Time: 1512

Lab File ID: JB797 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.710	1.449		15.3	
4-Chlorophenyl-phenylether	0.604	0.677	0.400	-12.1	25.0
Fluorene	1.142	1.162	0.900	-1.8	25.0
4-Nitroaniline	0.456	0.366		19.7	
4,6-Dinitro-2-Methylphenol	0.202	0.185		8.4	
N-Nitrosodiphenylamine (1)	0.502	0.455		9.4	
4-Bromophenyl-phenylether	0.240	0.245	0.100	-2.1	25.0
Hexachlorobenzene	0.325	0.359	0.100	-10.5	25.0
Pentachlorophenol	0.205	0.161	0.050	21.5	25.0
Phenanthrene	1.011	1.004	0.700	0.7	25.0
Anthracene	0.997	1.042	0.700	-4.5	25.0
Di-n-Butylphthalate	1.515	1.734		-14.5	
Fluoranthene	1.054	1.317	0.600	-25.0	25.0
Carbazole	0.978	1.058		-8.2	
Pyrene	1.347	1.420	0.600	-5.4	25.0
Butylbenzylphthalate	0.828	0.738		10.9	
3,3'-Dichlorobenzidine	0.363	0.291		19.8	
Benzo(a)Anthracene	1.130	1.143	0.800	-1.2	25.0
Chrysene	1.034	1.059	0.700	-2.4	25.0
bis(2-Ethylhexyl)Phthalate	0.961	0.928		3.4	
Di-n-Octyl Phthalate	1.995	1.911		4.2	
Benzo(b)Fluoranthene	1.302	1.194	0.700	8.3	25.0
Benzo(k)Fluoranthene	1.013	1.129	0.700	-11.4	25.0
Benzo(a)Pyrene	1.047	1.050	0.700	-0.3	25.0
Indeno(1,2,3-cd)Pyrene	1.030	1.034	0.500	-0.4	25.0
Dibenzo(a,h)Anthracene	0.815	0.851	0.400	-4.4	25.0
Benzo(g,h,i)Perylene	0.838	0.826	0.500	1.4	25.0
Nitrobenzene-d5	0.415	0.401	0.200	3.4	25.0
2-Fluorobiphenyl	1.317	1.457	0.700	-10.6	25.0
Terphenyl-d14	0.846	0.956	0.500	-13.0	25.0
Phenol-d5	1.590	1.445	0.800	9.1	25.0
2-Fluorophenol	1.313	1.248	0.600	5.0	25.0
2,4,6-Tribromophenol	0.304	0.252		17.1	
2-Chlorophenol-d4	1.321	1.219	0.800	7.7	25.0
1,2-Dichlorobenzene-d4	0.822	0.819	0.400	0.4	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

884

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS10 Calibration date: 01/19/95 Time: 1044

Lab File ID: JB845 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

Affected samples CPS50

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.754	1.858	0.800	-5.9	25.0
bis(2-Chloroethyl)Ether	1.650	1.612	0.700	2.3	25.0
2-Chlorophenol	1.363	1.368	0.800	-0.4	25.0
1,3-Dichlorobenzene	1.478	1.468	0.600	0.7	25.0
1,4-Dichlorobenzene	1.479	1.486	0.500	-0.5	25.0
1,2-Dichlorobenzene	1.350	1.340	0.400	0.7	25.0
2-Methylphenol	1.108	1.161	0.700	-4.8	25.0
2,2'-oxybis(1-Chloropropane)	2.280	3.074		-34.8	
4-Methylphenol	1.107	1.138	0.600	-2.8	25.0
N-Nitroso-Di-n-Propylamine	1.123	1.103	0.500	1.8	25.0
Hexachloroethane	0.643	0.609	0.300	5.3	25.0
Nitrobenzene	0.431	0.460	0.200	-6.7	25.0
Isophorone	0.945	0.898	0.400	5.0	25.0
2-Nitrophenol	0.246	0.252	0.100	-2.4	25.0
2,4-Dimethylphenol	0.369	0.364	0.200	1.4	25.0
bis(2-Chloroethoxy)Methane	0.549	0.536	0.300	2.4	25.0
2,4-Dichlorophenol	0.341	0.343	0.200	-0.6	25.0
1,2,4-Trichlorobenzene	0.378	0.374	0.200	1.1	25.0
Naphthalene	0.992	1.016	0.700	-2.4	25.0
4-Chloroaniline	0.434	0.446		-2.8	
Hexachlorobutadiene	0.227	0.227		0.0	
4-Chloro-3-Methylphenol	0.381	0.366	0.200	3.9	25.0
2-Methylnaphthalene	0.630	0.620	0.400	1.6	25.0
Hexachlorocyclopentadiene	0.394	0.345		12.4	
2,4,6-Trichlorophenol	0.514	0.518	0.200	-0.8	25.0
2,4,5-Trichlorophenol	0.560	0.569	0.200	-1.6	25.0
2-Chloronaphthalene	1.245	1.292	0.800	-3.8	25.0
2-Nitroaniline	0.563	0.594		-5.5	
Dimethyl Phthalate	1.733	1.530		11.7	
Acenaphthylene	1.940	2.015	1.300	-3.9	25.0
2,6-Dinitrotoluene	0.428	0.398	0.200	7.0	25.0
3-Nitroaniline	0.444	0.406		8.6	
Acenaphthene	1.191	1.210	0.800	-1.6	25.0
2,4-Dinitrophenol	0.276	0.174		37.0	
4-Nitrophenol	0.210	0.144		31.4	
Dibenzofuran	1.623	1.698	0.800	-4.6	25.0
2,4-Dinitrotoluene	0.545	0.525	0.200	3.7	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

885

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS10 Calibration date: 01/19/95 Time: 1044

Lab File ID: JB845 Init. Calib. Date(s): 01/04/95 01/04/95

Init. Calib. Times: 1127 1741

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.710	1.410		17.5	
4-Chlorophenyl-phenylether	0.604	0.640	0.400	-6.0	25.0
Fluorene	1.142	1.175	0.900	-2.9	25.0
4-Nitroaniline	0.456	0.410		10.1	
4,6-Dinitro-2-Methylphenol	0.202	0.183		9.4	
N-Nitrosodiphenylamine (1)	0.502	0.543		-8.2	
4-Bromophenyl-phenylether	0.240	0.265	0.100	-10.4	25.0
Hexachlorobenzene	0.325	0.374	0.100	-15.1	25.0
Pentachlorophenol	0.205	0.170	0.050	17.1	25.0
Phenanthrene	1.011	1.033	0.700	-2.2	25.0
Anthracene	0.997	1.018	0.700	-2.1	25.0
Di-n-Butylphthalate	1.515	1.303		14.0	
Fluoranthene	1.054	1.072	0.600	-1.7	25.0
Carbazole	0.978	0.996		-1.8	
Pyrene	1.347	1.313	0.600	2.5	25.0
Butylbenzylphthalate	0.828	0.680		17.9	
3,3'-Dichlorobenzidine	0.363	0.345		5.0	
Benzo(a)Anthracene	1.130	1.169	0.800	-3.5	25.0
Chrysene	1.034	1.064	0.700	-2.9	25.0
bis(2-Ethylhexyl)Phthalate	0.961	0.822		14.5	
Di-n-Octyl Phthalate	1.995	2.229		-11.7	
Benzo(b)Fluoranthene	1.302	1.219	0.700	6.4	25.0
Benzo(k)Fluoranthene	1.013	1.320	0.700	-30.3	25.0
Benzo(a)Pyrene	1.047	1.074	0.700	-2.6	25.0
Indeno(1,2,3-cd)Pyrene	1.030	0.843	0.500	18.2	25.0
Dibenzo(a,h)Anthracene	0.815	0.691	0.400	15.2	25.0
Benzo(g,h,i)Perylene	0.838	0.686	0.500	18.1	25.0
Nitrobenzene-d5	0.415	0.442	0.200	-6.5	25.0
2-Fluorobiphenyl	1.317	1.414	0.700	-7.4	25.0
Terphenyl-d14	0.846	0.875	0.500	-3.4	25.0
Phenol-d5	1.590	1.672	0.800	-5.2	25.0
2-Fluorophenol	1.313	1.374	0.600	-4.6	25.0
2,4,6-Tribromophenol	0.304	0.329		-8.2	
2-Chlorophenol-d4	1.321	1.321	0.800	0.0	25.0
1,2-Dichlorobenzene-d4	0.822	0.809	0.400	1.6	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

886

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration Date(s): 01/09/95 01/09/95

Calibration Times: 1547 2031

LAB FILE ID: RRF20 = AF762 RRF50 = AF761
RRF80 = AF766 RRF120= AF764 RRF160= AF765

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.766	1.800	1.902	1.950	1.932	1.870	4.4*
bis(2-Chloroethyl)Ether *	1.466	1.469	1.605	1.586	1.498	1.525	4.3*
2-Chlorophenol *	1.142	1.238	1.343	1.330	1.275	1.266	6.4*
1,3-Dichlorobenzene *	1.367	1.403	1.556	1.409	1.432	1.433	5.1*
1,4-Dichlorobenzene *	1.416	1.442	1.645	1.496	1.509	1.502	5.9*
1,2-Dichlorobenzene *	1.341	1.339	1.533	1.420	1.428	1.412	5.6*
2-Methylphenol *	0.985	1.137	1.339	1.335	1.238	1.207	12.4*
2,2'-oxybis(1-Chloropropane	2.062	2.141	2.476	2.519	2.338	2.307	8.7
4-Methylphenol *	1.153	1.243	1.465	1.488	1.366	1.343	10.7*
N-Nitroso-Di-n-Propylamine *	1.123	1.193	1.507	1.545	1.428	1.360	13.9*
Hexachloroethane *	0.606	0.631	0.716	0.644	0.697	0.659	7.0*
Nitrobenzene *	0.328	0.381	0.449	0.411	0.421	0.398	11.6*
Isophorone *	0.713	0.793	0.921	0.938	0.869	0.847	11.1*
2-Nitrophenol *	0.169	0.212	0.272	0.237	0.230	0.224	16.8*
2,4-Dimethylphenol *	0.214	0.351	0.355	0.353	0.349	0.324	19.1*
bis(2-Chloroethoxy)Methane *	0.455	0.485	0.570	0.547	0.526	0.517	9.0*
2,4-Dichlorophenol *	0.257	0.303	0.359	0.328	0.325	0.314	12.0*
1,2,4-Trichlorobenzene *	0.282	0.318	0.362	0.319	0.326	0.321	8.9*
Naphthalene *	0.900	0.985	1.095	0.972	0.976	0.986	7.1*
4-Chloroaniline	0.373	0.435	0.484	0.432	0.453	0.435	9.3
Hexachlorobutadiene	0.162	0.179	0.203	0.178	0.179	0.180	8.1
4-Chloro-3-Methylphenol *	0.293	0.348	0.438	0.395	0.377	0.370	14.6*
2-Methylnaphthalene *	0.622	0.666	0.745	0.690	0.725	0.690	7.0*
Hexachlorocyclopentadiene	0.259	0.331	0.365	0.351	0.383	0.338	14.2
2,4,6-Trichlorophenol *	0.357	0.400	0.458	0.417	0.421	0.411	8.9*
2,4,5-Trichlorophenol *		0.432	0.514	0.483	0.465	0.474	7.2*
2-Chloronaphthalene *	1.061	1.145	1.230	1.108	1.150	1.139	5.5*
2-Nitroaniline		0.485	0.616	0.595	0.593	0.572	10.3
Dimethyl Phthalate	1.330	1.542	1.802	1.853	1.696	1.645	12.9
Acenaphthylene *	1.750	1.979	2.067	1.960	1.924	1.936	6.0*
2,6-Dinitrotoluene *	0.275	0.353	0.412	0.409	0.380	0.366	15.3*
3-Nitroaniline		0.470	0.540	0.546	0.529	0.521	6.7
Acenaphthene *	1.161	1.264	1.412	1.298	1.300	1.287	7.0*
2,4-Dinitrophenol		0.226	0.335	0.325	0.342	0.307	17.7
4-Nitrophenol		0.188	0.232	0.229	0.228	0.219	9.5
Dibenzofuran *	1.600	1.789	2.060	1.782	1.636	1.773	10.2*
2,4-Dinitrotoluene *	0.453	0.536	0.715	0.713	0.614	0.606	18.8*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration Date(s): 01/09/95 01/09/95

Calibration Times: 1547 2031

LAB FILE ID: RRF20 = AF762 RRF50 = AF761
RRF80 = AF766 RRF120= AF764 RRF160= AF765

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate	1.536	1.705	1.946	1.985	1.758	1.786	10.3
4-Chlorophenyl-phenylether *	0.649	0.733	0.789	0.760	0.724	0.731	7.2*
Fluorene *	1.305	1.465	1.602	1.544	1.394	1.462	8.1*
4-Nitroaniline		0.530	0.677	0.684	0.650	0.635	11.3
4,6-Dinitro-2-Methylphenol		0.157	0.199	0.211	0.200	0.192	12.4
-Nitrosodiphenylamine (1)	0.484	0.505	0.506	0.534	0.487	0.503	4.0
4-Bromophenyl-phenylether *	0.205	0.217	0.224	0.215	0.207	0.214	3.6*
Hexachlorobenzene *	0.266	0.276	0.293	0.278	0.270	0.277	3.7*
Pentachlorophenol *		0.175	0.200	0.199	0.193	0.192	6.0*
Phenanthrene *	1.071	1.101	1.022	1.030	0.965	1.038	5.0*
Anthracene *	1.112	1.117	1.087	1.150	0.981	1.089	5.9*
Di-n-Butylphthalate	1.596	1.742	1.748	1.945	1.642	1.735	7.7
Fluoranthene *	1.246	1.318	1.317	1.354	1.206	1.288	4.7*
Carbazole	1.154	1.154	1.221	1.236	1.095	1.172	4.9
Pyrene *	1.147	1.263	1.391	1.407	1.377	1.317	8.4*
Butylbenzylphthalate	0.628	0.703	0.856	0.892	0.862	0.788	14.7
3,3'-Dichlorobenzidine	0.389	0.432	0.481	0.439	0.466	0.441	8.0
Benzo(a)Anthracene *	1.020	1.107	1.209	1.182	1.158	1.135	6.6*
Chrysene *	1.078	1.181	1.272	1.263	1.235	1.206	6.6*
bis(2-Ethylhexyl)Phthalate	0.959	1.065	1.288	1.249	1.274	1.167	12.6
Di-n-Octyl Phthalate	1.624	1.855	2.118	2.176	1.911	1.937	11.4
nzo(b)Fluoranthene *	1.220	1.262	1.308	1.235	1.200	1.245	3.4*
Benzo(k)Fluoranthene *	1.090	1.117	1.282	1.220	1.116	1.165	7.1*
Benzo(a)Pyrene *	1.061	1.098	1.151	1.125	1.088	1.105	3.1*
Indeno(1,2,3-cd)Pyrene *	0.943	0.926	1.025	1.007	1.057	0.992	5.6*
Dibenzo(a,h)Anthracene *	0.980	0.944	1.018	1.009	1.016	0.993	3.2*
Benzo(g,h,i)Perylene *	0.997	0.957	1.008	0.997	1.028	0.997	2.6*
Nitrobenzene-d5 *	0.290	0.335	0.418	0.392	0.405	0.368	14.6*
2-Fluorobiphenyl *	1.103	1.258	1.297	1.258	1.198	1.223	6.2*
Terphenyl-d14 *	0.712	0.755	0.816	0.949	0.822	0.811	11.0*
Phenol-d5 *	1.553	1.586	1.839	1.833	1.767	1.716	8.0*
2-Fluorophenol *	0.998	1.042	1.211	1.216	1.190	1.131	9.1*
2,4,6-Tribromophenol	0.275	0.311	0.403	0.386	0.372	0.349	15.5
2-Chlorophenol-d4 *	1.128	1.155	1.362	1.344	1.313	1.260	8.8*
1,2-Dichlorobenzene-d4 *	0.794	0.810	0.952	0.855	0.904	0.863	7.6*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/12/95 Time: 1128

Lab File ID: AF814 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

Associated Samples

SBLKAJ
CPS47

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.870	1.700	0.800	9.1	25.0
bis(2-Chloroethyl)Ether	1.525	1.432	0.700	6.1	25.0
2-Chlorophenol	1.266	1.282	0.800	-1.3	25.0
1,3-Dichlorobenzene	1.433	1.448	0.600	-1.0	25.0
1,4-Dichlorobenzene	1.502	1.481	0.500	1.4	25.0
1,2-Dichlorobenzene	1.412	1.434	0.400	-1.6	25.0
2-Methylphenol	1.207	1.192	0.700	1.2	25.0
2,2'-oxybis(1-Chloropropane)	2.307	2.028		12.1	
4-Methylphenol	1.343	1.308	0.600	2.6	25.0
N-Nitroso-Di-n-Propylamine	1.360	1.168	0.500	14.1	25.0
Hexachloroethane	0.659	0.616	0.300	6.5	25.0
Nitrobenzene	0.398	0.413	0.200	-3.8	25.0
Isophorone	0.847	0.811	0.400	4.2	25.0
2-Nitrophenol	0.224	0.231	0.100	-3.1	25.0
2,4-Dimethylphenol	0.324	0.331	0.200	-2.2	25.0
bis(2-Chloroethoxy)Methane	0.517	0.500	0.300	3.3	25.0
2,4-Dichlorophenol	0.314	0.315	0.200	-0.3	25.0
1,2,4-Trichlorobenzene	0.321	0.323	0.200	-0.6	25.0
Naphthalene	0.986	0.994	0.700	-0.8	25.0
4-Chloroaniline	0.435	0.460		-5.7	
Hexachlorobutadiene	0.180	0.177		1.7	
4-Chloro-3-Methylphenol	0.370	0.341	0.200	7.8	25.0
2-Methylnaphthalene	0.690	0.661	0.400	4.2	25.0
Hexachlorocyclopentadiene	0.338	0.355		-5.0	
2,4,6-Trichlorophenol	0.411	0.425	0.200	-3.4	25.0
2,4,5-Trichlorophenol	0.474	0.465	0.200	1.9	25.0
2-Chloronaphthalene	1.139	1.168	0.800	-2.5	25.0
2-Nitroaniline	0.572	0.533		6.8	
Dimethyl Phthalate	1.645	1.504		8.6	
Acenaphthylene	1.936	1.970	1.300	-1.8	25.0
2,6-Dinitrotoluene	0.366	0.354	0.200	3.3	25.0
3-Nitroaniline	0.521	0.448		14.0	
Acenaphthene	1.287	1.286	0.800	0.1	25.0
2,4-Dinitrophenol	0.307	0.257		16.3	
4-Nitrophenol	0.219	0.171		21.9	
Dibenzofuran	1.773	1.744	0.800	1.6	25.0
2,4-Dinitrotoluene	0.606	0.521	0.200	14.0	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/12/95 Time: 1128

Lab File ID: AF814 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.541		13.7	
4-Chlorophenyl-phenylether	0.731	0.683	0.400	6.6	25.0
Fluorene	1.462	1.374	0.900	6.0	25.0
4-Nitroaniline	0.635	0.521		18.0	
4,6-Dinitro-2-Methylphenol	0.192	0.165		14.1	
N-Nitrosodiphenylamine (1)	0.503	0.536		-6.6	
4-Bromophenyl-phenylether	0.214	0.219	0.100	-2.3	25.0
Hexachlorobenzene	0.277	0.272	0.100	1.8	25.0
Pentachlorophenol	0.192	0.169	0.050	12.0	25.0
Phenanthrene	1.038	1.031	0.700	0.7	25.0
Anthracene	1.089	1.130	0.700	-3.8	25.0
Di-n-Butylphthalate	1.735	1.606		7.4	
Fluoranthene	1.288	1.200	0.600	6.8	25.0
Carbazole	1.172	1.138		2.9	
Pyrene	1.317	1.217	0.600	7.6	25.0
Butylbenzylphthalate	0.788	0.740		6.1	
3,3'-Dichlorobenzidine	0.441	0.454		-2.9	
Benzo(a)Anthracene	1.135	1.068	0.800	5.9	25.0
Chrysene	1.206	1.161	0.700	3.7	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.107		5.1	
Di-n-Octyl Phthalate	1.937	1.766		8.8	
Benzo(b)Fluoranthene	1.245	1.148	0.700	7.8	25.0
Benzo(k)Fluoranthene	1.165	1.095	0.700	6.0	25.0
Benzo(a)Pyrene	1.105	1.043	0.700	5.6	25.0
Indeno(1,2,3-cd)Pyrene	0.992	1.073	0.500	-8.2	25.0
Dibenzo(a,h)Anthracene	0.993	1.039	0.400	-4.6	25.0
Benzo(g,h,i)Perylene	0.997	1.046	0.500	-4.9	25.0
Nitrobenzene-d5	0.368	0.398	0.200	-8.2	25.0
2-Fluorobiphenyl	1.223	1.260	0.700	-3.0	25.0
Terphenyl-d14	0.811	0.744	0.500	8.3	25.0
Phenol-d5	1.716	1.657	0.800	3.4	25.0
2-Fluorophenol	1.131	1.159	0.600	-2.5	25.0
2,4,6-Tribromophenol	0.349	0.296		15.2	
2-Chlorophenol-d4	1.260	1.238	0.800	1.7	25.0
1,2-Dichlorobenzene-d4	0.863	0.847	0.400	1.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/13/95 Time: 1129

Lab File ID: AF830 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	Associated Samples
Phenol	1.870	1.774	0.800	5.1	25.0	
bis(2-Chloroethyl)Ether	1.525	1.496	0.700	1.9	25.0	CPS 52
2-Chlorophenol	1.266	1.310	0.800	-3.5	25.0	CPS 54
1,3-Dichlorobenzene	1.433	1.453	0.600	-1.4	25.0	CPS 53
1,4-Dichlorobenzene	1.502	1.484	0.500	1.2	25.0	CPS 48
1,2-Dichlorobenzene	1.412	1.409	0.400	0.2	25.0	
2-Methylphenol	1.207	1.215	0.700	-0.7	25.0	CPS 55
2,2'-oxybis(1-Chloropropane)	2.307	2.063		10.6		CPS 51
4-Methylphenol	1.343	1.314	0.600	2.2	25.0	CPS MSD
N-Nitroso-Di-n-Propylamine	1.360	1.214	0.500	10.7	25.0	
Hexachloroethane	0.659	0.645	0.300	2.1	25.0	
Nitrobenzene	0.398	0.431	0.200	-8.3	25.0	
Isophorone	0.847	0.807	0.400	4.7	25.0	
2-Nitrophenol	0.224	0.245	0.100	-9.4	25.0	
2,4-Dimethylphenol	0.324	0.322	0.200	0.6	25.0	
bis(2-Chloroethoxy)Methane	0.517	0.489	0.300	5.4	25.0	
2,4-Dichlorophenol	0.314	0.312	0.200	0.6	25.0	
1,2,4-Trichlorobenzene	0.321	0.323	0.200	-0.6	25.0	
Naphthalene	0.986	0.987	0.700	-0.1	25.0	
4-Chloroaniline	0.435	0.465		-6.9		
Hexachlorobutadiene	0.180	0.180		0.0		
4-Chloro-3-Methylphenol	0.370	0.330	0.200	10.8	25.0	
2-Methylnaphthalene	0.690	0.668	0.400	3.2	25.0	
Hexachlorocyclopentadiene	0.338	0.370		-9.5		
2,4,6-Trichlorophenol	0.411	0.438	0.200	-6.6	25.0	
2,4,5-Trichlorophenol	0.474	0.464	0.200	2.1	25.0	
2-Chloronaphthalene	1.139	1.190	0.800	-4.5	25.0	
2-Nitroaniline	0.572	0.554		3.1		
Dimethyl Phthalate	1.645	1.511		8.1		
Acenaphthylene	1.936	1.994	1.300	-3.0	25.0	
2,6-Dinitrotoluene	0.366	0.361	0.200	1.4	25.0	
3-Nitroaniline	0.521	0.439		15.7		
Acenaphthene	1.287	1.236	0.800	4.0	25.0	
2,4-Dinitrophenol	0.307	0.240		21.8		
4-Nitrophenol	0.219	0.169		22.8		
Dibenzofuran	1.773	1.807	0.800	-1.9	25.0	
2,4-Dinitrotoluene	0.606	0.557	0.200	8.1	25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

875

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/13/95 Time: 1129

Lab File ID: AF830 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.553		13.0	
4-Chlorophenyl-phenylether	0.731	0.689	0.400	5.7	25.0
Fluorene	1.462	1.382	0.900	5.5	25.0
4-Nitroaniline	0.635	0.534		15.9	
4,6-Dinitro-2-Methylphenol	0.192	0.172		10.4	
N-Nitrosodiphenylamine (1)	0.503	0.529		-5.2	
4-Bromophenyl-phenylether	0.214	0.218	0.100	-1.9	25.0
Hexachlorobenzene	0.277	0.267	0.100	3.6	25.0
Pentachlorophenol	0.192	0.171	0.050	10.9	25.0
Phenanthrene	1.038	1.047	0.700	-0.9	25.0
Anthracene	1.089	1.080	0.700	0.8	25.0
Di-n-Butylphthalate	1.735	1.571		9.5	
Fluoranthene	1.288	1.184	0.600	8.1	25.0
Carbazole	1.172	1.100		6.1	
Pyrene	1.317	1.245	0.600	5.5	25.0
Butylbenzylphthalate	0.788	0.720		8.6	
3,3'-Dichlorobenzidine	0.441	0.442		-0.2	
Benzo(a)Anthracene	1.135	1.040	0.800	8.4	25.0
Chrysene	1.206	1.094	0.700	9.3	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.126		3.5	
Di-n-Octyl Phthalate	1.937	1.842		4.9	
Benzo(b)Fluoranthene	1.245	1.191	0.700	4.3	25.0
Benzo(k)Fluoranthene	1.165	1.036	0.700	11.1	25.0
Benzo(a)Pyrene	1.105	1.038	0.700	6.1	25.0
Indeno(1,2,3-cd)Pyrene	0.992	0.952	0.500	4.0	25.0
Dibenzo(a,h)Anthracene	0.993	0.966	0.400	2.7	25.0
Benzo(g,h,i)Perylene	0.997	0.949	0.500	4.8	25.0
Nitrobenzene-d5	0.368	0.394	0.200	-7.1	25.0
2-Fluorobiphenyl	1.223	1.284	0.700	-5.0	25.0
Terphenyl-d14	0.811	0.778	0.500	4.1	25.0
Phenol-d5	1.716	1.715	0.800	0.1	25.0
2-Fluorophenol	1.131	1.181	0.600	-4.4	25.0
2,4,6-Tribromophenol	0.349	0.305		12.6	
2-Chlorophenol-d4	1.260	1.269	0.800	-0.7	25.0
1,2-Dichlorobenzene-d4	0.863	0.866	0.400	-0.3	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/14/95 Time: 1144

Lab File ID: AF845 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

Associated Samples

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Phenol	1.870	1.717	0.800	8.2	25.0	
bis(2-Chloroethyl)Ether	1.525	1.467	0.700	3.8	25.0	CPS51MS
2-Chlorophenol	1.266	1.308	0.800	-3.3	25.0	CPS44
1,3-Dichlorobenzene	1.433	1.422	0.600	0.8	25.0	CPS45
1,4-Dichlorobenzene	1.502	1.519	0.500	-1.1	25.0	
1,2-Dichlorobenzene	1.412	1.422	0.400	-0.7	25.0	
2-Methylphenol	1.207	1.107	0.700	8.3	25.0	
2,2'-oxybis(1-Chloropropane)	2.307	2.010		12.9		
4-Methylphenol	1.343	1.244	0.600	7.4	25.0	
N-Nitroso-Di-n-Propylamine	1.360	1.185	0.500	12.9	25.0	
Hexachloroethane	0.659	0.597	0.300	9.4	25.0	
Nitrobenzene	0.398	0.392	0.200	1.5	25.0	
Isophorone	0.847	0.792	0.400	6.5	25.0	
2-Nitrophenol	0.224	0.224	0.100	0.0	25.0	
2,4-Dimethylphenol	0.324	0.333	0.200	-2.8	25.0	
bis(2-Chloroethoxy)Methane	0.517	0.490	0.300	5.2	25.0	
2,4-Dichlorophenol	0.314	0.302	0.200	3.8	25.0	
1,2,4-Trichlorobenzene	0.321	0.319	0.200	0.6	25.0	
Naphthalene	0.986	0.983	0.700	0.3	25.0	
4-Chloroaniline	0.435	0.454		-4.4		
Hexachlorobutadiene	0.180	0.175		2.8		
4-Chloro-3-Methylphenol	0.370	0.356	0.200	3.8	25.0	
2-Methylnaphthalene	0.690	0.680	0.400	1.4	25.0	
Hexachlorocyclopentadiene	0.338	0.320		5.3		
2,4,6-Trichlorophenol	0.411	0.424	0.200	-3.2	25.0	
2,4,5-Trichlorophenol	0.474	0.478	0.200	-0.8	25.0	
2-Chloronaphthalene	1.139	1.150	0.800	-1.0	25.0	
2-Nitroaniline	0.572	0.542		5.2		
Dimethyl Phthalate	1.645	1.483		9.8		
Acenaphthylene	1.936	2.044	1.300	-5.6	25.0	
2,6-Dinitrotoluene	0.366	0.353	0.200	3.6	25.0	
3-Nitroaniline	0.521	0.439		15.7		
Acenaphthene	1.287	1.235	0.800	4.0	25.0	
2,4-Dinitrophenol	0.307	0.185		39.7		
4-Nitrophenol	0.219	0.155		29.2		
Dibenzofuran	1.773	1.751	0.800	1.2	25.0	
2,4-Dinitrotoluene	0.606	0.513	0.200	15.4	25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

877

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/14/95 Time: 1144

Lab File ID: AF845 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.582		11.4	
4-Chlorophenyl-phenylether	0.731	0.686	0.400	6.2	25.0
Fluorene	1.462	1.408	0.900	3.7	25.0
4-Nitroaniline	0.635	0.508		20.0	
4,6-Dinitro-2-Methylphenol	0.192	0.148		22.9	
N-Nitrosodiphenylamine (1)	0.503	0.512		-1.8	
4-Bromophenyl-phenylether	0.214	0.215	0.100	-0.5	25.0
Hexachlorobenzene	0.277	0.262	0.100	5.4	25.0
Pentachlorophenol	0.192	0.131	0.050	31.8	25.0
Phenanthrene	1.038	1.080	0.700	-4.0	25.0
Anthracene	1.089	1.089	0.700	0.0	25.0
Di-n-Butylphthalate	1.735	1.612		7.1	
Fluoranthene	1.288	1.280	0.600	0.6	25.0
Carbazole	1.172	1.106		5.6	
Pyrene	1.317	1.048	0.600	20.4	25.0
Butylbenzylphthalate	0.788	0.670		15.0	
3,3'-Dichlorobenzidine	0.441	0.459		-4.1	
Benzo(a)Anthracene	1.135	1.162	0.800	-2.4	25.0
Chrysene	1.206	1.072	0.700	11.1	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.077		7.7	
Di-n-Octyl Phthalate	1.937	1.993		-2.9	
Benzo(b)Fluoranthene	1.245	1.302	0.700	-4.6	25.0
Benzo(k)Fluoranthene	1.165	0.982	0.700	15.7	25.0
Benzo(a)Pyrene	1.105	1.068	0.700	3.3	25.0
Indeno(1,2,3-cd)Pyrene	0.992	1.189	0.500	-19.9	25.0
Dibenzo(a,h)Anthracene	0.993	0.944	0.400	4.9	25.0
Benzo(g,h,i)Perylene	0.997	0.965	0.500	3.2	25.0
Nitrobenzene-d5	0.368	0.371	0.200	-0.8	25.0
2-Fluorobiphenyl	1.223	1.173	0.700	4.1	25.0
Terphenyl-d14	0.811	0.684	0.500	15.7	25.0
Phenol-d5	1.716	1.625	0.800	5.3	25.0
2-Fluorophenol	1.131	1.165	0.600	-3.0	25.0
2,4,6-Tribromophenol	0.349	0.278		20.3	
2-Chlorophenol-d4	1.260	1.223	0.800	2.9	25.0
1,2-Dichlorobenzene-d4	0.863	0.851	0.400	1.4	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/15/95 Time: 1231

Lab File ID: AF850 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

Associated Samples CPS46

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.870	1.667	0.800	10.9	25.0
bis(2-Chloroethyl)Ether	1.525	1.417	0.700	7.1	25.0
2-Chlorophenol	1.266	1.282	0.800	-1.3	25.0
1,3-Dichlorobenzene	1.433	1.419	0.600	1.0	25.0
1,4-Dichlorobenzene	1.502	1.512	0.500	-0.7	25.0
1,2-Dichlorobenzene	1.412	1.401	0.400	0.8	25.0
2-Methylphenol	1.207	1.182	0.700	2.1	25.0
2,2'-oxybis(1-Chloropropane)	2.307	1.858		19.5	
4-Methylphenol	1.343	1.262	0.600	6.0	25.0
N-Nitroso-Di-n-Propylamine	1.360	1.091	0.500	19.8	25.0
Hexachloroethane	0.659	0.612	0.300	7.1	25.0
Nitrobenzene	0.398	0.376	0.200	5.5	25.0
Isophorone	0.847	0.766	0.400	9.6	25.0
2-Nitrophenol	0.224	0.235	0.100	-4.9	25.0
2,4-Dimethylphenol	0.324	0.322	0.200	0.6	25.0
bis(2-Chloroethoxy)Methane	0.517	0.489	0.300	5.4	25.0
2,4-Dichlorophenol	0.314	0.348	0.200	-10.8	25.0
1,2,4-Trichlorobenzene	0.321	0.383	0.200	-19.3	25.0
Naphthalene	0.986	1.024	0.700	-3.9	25.0
4-Chloroaniline	0.435	0.472		-8.5	
Hexachlorobutadiene	0.180	0.209		-16.1	
4-Chloro-3-Methylphenol	0.370	0.341	0.200	7.8	25.0
2-Methylnaphthalene	0.690	0.719	0.400	-4.2	25.0
Hexachlorocyclopentadiene	0.338	0.351		-3.8	
2,4,6-Trichlorophenol	0.411	0.453	0.200	-10.2	25.0
2,4,5-Trichlorophenol	0.474	0.482	0.200	-1.7	25.0
2-Chloronaphthalene	1.139	1.187	0.800	-4.2	25.0
2-Nitroaniline	0.572	0.518		9.4	
Dimethyl Phthalate	1.645	1.516		7.8	
Acenaphthylene	1.936	1.992	1.300	-2.9	25.0
2,6-Dinitrotoluene	0.366	0.352	0.200	3.8	25.0
3-Nitroaniline	0.521	0.424		18.6	
Acenaphthene	1.287	1.220	0.800	5.2	25.0
2,4-Dinitrophenol	0.307	0.176		42.7	
4-Nitrophenol	0.219	0.131		40.2	
Dibenzofuran	1.773	1.820	0.800	-2.7	25.0
2,4-Dinitrotoluene	0.606	0.512	0.200	15.5	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

879

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/15/95 Time: 1231

Lab File ID: AF850 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.536		14.0	
4-Chlorophenyl-phenylether	0.731	0.743	0.400	-1.6	25.0
Fluorene	1.462	1.416	0.900	3.1	25.0
4-Nitroaniline	0.635	0.465		26.8	
4,6-Dinitro-2-Methylphenol	0.192	0.143		25.5	
N-Nitrosodiphenylamine (1)	0.503	0.503		0.0	
4-Bromophenyl-phenylether	0.214	0.237	0.100	-10.8	25.0
Hexachlorobenzene	0.277	0.292	0.100	-5.4	25.0
Pentachlorophenol	0.192	0.119	0.050	38.0	25.0
Phenanthrene	1.038	1.020	0.700	1.7	25.0
Anthracene	1.089	1.039	0.700	4.6	25.0
Di-n-Butylphthalate	1.735	1.513		12.8	
Fluoranthene	1.288	1.166	0.600	9.5	25.0
Carbazole	1.172	1.017		13.2	
Pyrene	1.317	1.242	0.600	5.7	25.0
Butylbenzylphthalate	0.788	0.697		11.6	
3,3'-Dichlorobenzidine	0.441	0.502		-13.8	
Benzo(a)Anthracene	1.135	1.191	0.800	-4.9	25.0
Chrysene	1.206	1.165	0.700	3.4	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.150		1.5	
Di-n-Octyl Phthalate	1.937	2.089		-7.8	
Benzo(b)Fluoranthene	1.245	1.213	0.700	2.6	25.0
Benzo(k)Fluoranthene	1.165	1.039	0.700	10.8	25.0
Benzo(a)Pyrene	1.105	1.044	0.700	5.5	25.0
Indeno(1,2,3-cd)Pyrene	0.992	1.090	0.500	-9.9	25.0
Dibenzo(a,h)Anthracene	0.993	0.879	0.400	11.5	25.0
Benzo(g,h,i)Perylene	0.997	0.882	0.500	11.5	25.0
Nitrobenzene-d5	0.368	0.362	0.200	1.6	25.0
2-Fluorobiphenyl	1.223	1.269	0.700	-3.8	25.0
Terphenyl-d14	0.811	0.781	0.500	3.7	25.0
Phenol-d5	1.716	1.667	0.800	2.9	25.0
2-Fluorophenol	1.131	1.097	0.600	3.0	25.0
2,4,6-Tribromophenol	0.349	0.297		14.9	
2-Chlorophenol-d4	1.260	1.264	0.800	-0.3	25.0
1,2-Dichlorobenzene-d4	0.863	0.839	0.400	2.8	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

880

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/17/95 Time: 1127

Lab File ID: AF879 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

Associated Samples CPS49

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.870	1.665	0.800	11.0	25.0
bis(2-Chloroethyl)Ether	1.525	1.287	0.700	15.6	25.0
2-Chlorophenol	1.266	1.265	0.800	0.1	25.0
1,3-Dichlorobenzene	1.433	1.414	0.600	1.3	25.0
1,4-Dichlorobenzene	1.502	1.478	0.500	1.6	25.0
1,2-Dichlorobenzene	1.412	1.386	0.400	1.8	25.0
2-Methylphenol	1.207	1.134	0.700	6.0	25.0
2,2'-oxybis(1-Chloropropane)	2.307	2.086		9.6	
4-Methylphenol	1.343	1.262	0.600	6.0	25.0
N-Nitroso-Di-n-Propylamine	1.360	1.146	0.500	15.7	25.0
Hexachloroethane	0.659	0.616	0.300	6.5	25.0
Nitrobenzene	0.398	0.395	0.200	0.8	25.0
Isophorone	0.847	0.794	0.400	6.3	25.0
2-Nitrophenol	0.224	0.246	0.100	-9.8	25.0
2,4-Dimethylphenol	0.324	0.341	0.200	-5.2	25.0
bis(2-Chloroethoxy)Methane	0.517	0.480	0.300	7.2	25.0
2,4-Dichlorophenol	0.314	0.353	0.200	-12.4	25.0
1,2,4-Trichlorobenzene	0.321	0.378	0.200	-17.8	25.0
Naphthalene	0.986	0.989	0.700	-0.3	25.0
4-Chloroaniline	0.435	0.455		-4.6	
Hexachlorobutadiene	0.180	0.228		-26.7	
4-Chloro-3-Methylphenol	0.370	0.384	0.200	-3.8	25.0
2-Methylnaphthalene	0.690	0.730	0.400	-5.8	25.0
Hexachlorocyclopentadiene	0.338	0.441		-30.5	
2,4,6-Trichlorophenol	0.411	0.476	0.200	-15.8	25.0
2,4,5-Trichlorophenol	0.474	0.524	0.200	-10.6	25.0
2-Chloronaphthalene	1.139	1.158	0.800	-1.7	25.0
2-Nitroaniline	0.572	0.540		5.6	
Dimethyl Phthalate	1.645	1.585		3.6	
Acenaphthylene	1.936	1.819	1.300	6.0	25.0
2,6-Dinitrotoluene	0.366	0.370	0.200	-1.1	25.0
3-Nitroaniline	0.521	0.438		15.9	
Acenaphthene	1.287	1.186	0.800	7.8	25.0
2,4-Dinitrophenol	0.307	0.311		-1.3	
4-Nitrophenol	0.219	0.178		18.7	
Dibenzofuran	1.773	1.832	0.800	-3.3	25.0
2,4-Dinitrotoluene	0.606	0.621	0.200	-2.5	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

881

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Instrument ID: MS1 Calibration date: 01/17/95 Time: 1127

Lab File ID: AF879 Init. Calib. Date(s): 01/09/95 01/09/95

Init. Calib. Times: 1547 2031

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.786	1.704		4.6	
4-Chlorophenyl-phenylether	0.731	0.788	0.400	-7.8	25.0
Fluorene	1.462	1.438	0.900	1.6	25.0
4-Nitroaniline	0.635	0.525		17.3	
4,6-Dinitro-2-Methylphenol	0.192	0.204		-6.2	
N-Nitrosodiphenylamine (1)	0.503	0.496		1.4	
4-Bromophenyl-phenylether	0.214	0.247	0.100	-15.4	25.0
Hexachlorobenzene	0.277	0.343	0.100	-23.8	25.0
Pentachlorophenol	0.192	0.142	0.050	26.0	25.0
Phenanthrene	1.038	1.008	0.700	2.9	25.0
Anthracene	1.089	1.071	0.700	1.7	25.0
Di-n-Butylphthalate	1.735	1.511		12.9	
Fluoranthene	1.288	1.198	0.600	7.0	25.0
Carbazole	1.172	1.047		10.7	
Pyrene	1.317	1.438	0.600	-9.2	25.0
Butylbenzylphthalate	0.788	0.785		0.4	
3,3'-Dichlorobenzidine	0.441	0.475		-7.7	
Benzo(a)Anthracene	1.135	1.229	0.800	-8.3	25.0
Chrysene	1.206	1.107	0.700	8.2	25.0
bis(2-Ethylhexyl)Phthalate	1.167	1.095		6.2	
Di-n-Octyl Phthalate	1.937	1.927		0.5	
Benzo(b)Fluoranthene	1.245	1.366	0.700	-9.7	25.0
Benzo(k)Fluoranthene	1.165	0.960	0.700	17.6	25.0
Benzo(a)Pyrene	1.105	1.031	0.700	6.7	25.0
Indeno(1,2,3-cd)Pyrene	0.992	1.045	0.500	-5.3	25.0
Dibenzo(a,h)Anthracene	0.993	0.867	0.400	12.7	25.0
Benzo(g,h,i)Perylene	0.997	0.858	0.500	13.9	25.0
Nitrobenzene-d5	0.368	0.380	0.200	-3.3	25.0
2-Fluorobiphenyl	1.223	1.243	0.700	-1.6	25.0
Terphenyl-d14	0.811	0.987	0.500	-21.7	25.0
Phenol-d5	1.716	1.504	0.800	12.4	25.0
2-Fluorophenol	1.131	1.092	0.600	3.4	25.0
2,4,6-Tribromophenol	0.349	0.423		-21.2	
2-Chlorophenol-d4	1.260	1.189	0.800	5.6	25.0
1,2-Dichlorobenzene-d4	0.863	0.873	0.400	-1.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

882

SDG Narrative

The enclosed data package is in response to EPA Case No. 23084, SDG No. CPS40. Under this SDG there are 13 VOA, 12 SVOA and 12 PEST analyses for 11 aqueous samples which were received at Ceimic Corporation on December 22nd and 23rd, 1994 from Region III.

This data package includes the analyses for the following samples from SDG No. CPS40:

Client ID	Analysis	VOA pH
CPS40	VOA, SVOA, PEST	1
CPS41	VOA, SVOA, PEST	1
CPS42	VOA, SVOA, PEST	1
CPS43	VOA, SVOA, PEST	1
CPS56	VOA, SVOA, PEST	1
CPS34	VOA	1
CPS35 MS/MSD	VOA, SVOA, PEST	1
CPS36	VOA, SVOA, PEST	1
CPS37	VOA, SVOA, PEST	1
CPS38	VOA, SVOA, PEST	1
CPS39	VOA, SVOA, PEST	1

The submitted data covers the analyses of the Volatiles (VOA), Semivolatiles (SVOA) and Pesticides (PEST) fractions and their associated blanks and QA/QC. CEIMIC would like to highlight the following points pertaining to the analyses performed for this case:

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/MS Analysis

A. VOA

MS3: HP5970B GC/MS using 75 m x 0.53 mm ID HP-624 megabore column.

B. SVOA

MS1: HP5970B GC/MS using 30 m x 0.25 mm ID DB-5 fused silica capillary column.

MS10: HP5970B GC/MS using 30 m x 0.25 mm ID DB-5 fused silica capillary column.

GC Analysis

C. PEST

AD9_1: HP5890II using 30 m x 0.53 mm ID DB-608 megabore column.

AD8_1: HP5890II using 30 m x 0.53 mm ID DB-1701 megabore column.

(3) Sample Information

Additional qualifier: "x"

An "x" qualifier is flagged by Formaster software whenever the data is manually edited.

The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. These data manipulations are done only to correct for computer integration error.

A. VOA Fraction

The VOA reconstructed ion chromatograms are labelled as:

IS1	Bromochloromethane	IS
IS2	1,4-Difluorobenzene	IS
IS3	Chlorobenzene-d5	IS
SMC1	Toluene-d8	SMC
SMC2	Bromofluorobenzene	SMC
SMC3	1,2-Dichloroethane-d4	SMC

IS = Internal Standard
SMC = System Monitoring Compound

No noncompliances are noted.

B. SVOA Fraction

The SV reconstructed ion chromatograms are labelled as:

IS1	1,4-Dichlorobenzene-d4	IS
IS2	Naphthalene-d8	IS
IS3	Acenaphthene-d10	IS
IS4	Phenanthrene-d10	IS
IS5	Chrysene-d12	IS
IS6	Perylene-d12	IS
S1	Nitrobenzene-d5	SS
S2	2-Fluorobiphenyl	SS
S3	Terphenyl-d14	SS
S4	Phenol-d5	SS
S5	2-Fluorophenol	SS
S6	2,4,6-Tribromophenol	SS
S7	2-Chlorophenol-d4	SS
S8	1,2-Dichlorobenzene-d4	SS

IS = Internal Standard
SS = Surrogate Standard

No noncompliances are noted.

C. Pest Fraction

No noncompliances are noted.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

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

Miguel Muzzio, Laboratory Manager

January 24, 1995
Date

SDG Narrative

The enclosed data package is in response to EPA Case No. 23084, SDG No. CPS44. Under this SDG there are 14 VOA, 14 SVOA and 14 PEST analyses for 12 soil samples which were received at Ceimic Corporation on December 22, 1994 from Region III.

This data package includes the analyses for the following samples from SDG No. CPS44:

Client ID	Analysis
CPS44	VOA, SVOA, PEST
CPS45	VOA, SVOA, PEST
CPS46	VOA, SVOA, PEST
CPS47	VOA, SVOA, PEST
CPS48	VOA, SVOA, PEST
CPS49	VOA, SVOA, PEST
CPS50	VOA, SVOA, PEST
CPS51 MS/MSD	VOA, SVOA, PEST
CPS52	VOA, SVOA, PEST
CPS53	VOA, SVOA, PEST
CPS54	VOA, SVOA, PEST
CPS55	VOA, SVOA, PEST

The submitted data covers the analyses of the Volatiles (VOA), Semivolatiles (SVOA) and Pesticides (PEST) fractions and their associated blanks and QA/QC. CEIMIC would like to highlight the following points pertaining to the analyses performed for this case:

(2) Instrumentation and Column Identification

The following instruments were used for the analyses:

GC/MS Analysis

A. VOA

MS3: HP5970B GC/MS using 75 m x 0.53 mm ID HP-624 megabore column.

MS5: HP5970B GC/MS using 75 m x 0.53 mm ID HP-624 megabore column.

B. SVOA

MS1: HP5970B GC/MS using 30 m x 0.25 mm ID DB-5 fused silica capillary column.

MS10: HP5970B GC/MS using 30 m x 0.25 mm ID DB-5 fused silica capillary column.

GC Analysis

C. PEST

AD9_1: HP5890II using 30 m x 0.53 mm ID DB-608 megabore column.

AD8_1: HP5890II using 30 m x 0.53 mm ID DB-1701 megabore column.

(3) Sample Information

Additional qualifier: "x"

An "x" qualifier is flagged by Formaster software whenever the data is manually edited.

The letters "M" for GC/MS and "FF" for GC are used on the raw data of the quantitation report whenever a manual integration is performed. These data manipulations are done only to correct for computer integration error.

A. VOA Fraction

The VOA reconstructed ion chromatograms are labelled as:

IS1	Bromochloromethane	IS
IS2	1,4-Difluorobenzene	IS
IS3	Chlorobenzene-d5	IS
SMC1	Toluene-d8	SMC
SMC2	Bromofluorobenzene	SMC
SMC3	1,2-Dichloroethane-d4	SMC

IS = Internal Standard
SMC = System Monitoring Compound

For Sample CPS48 (Ceimic ID 941111-09) the IS3 area was out of limits. The sample was re-analyzed as CPS48RE (Ceimic ID 941111-09RE) with similar results.

For Sample CPS49 (Ceimic ID 941111-10) the IS1, IS2, and IS3 areas were out of limits. The sample was re-analyzed as CPS49RE (Ceimic ID 941111-10RE) with similar results.

B. SVOA Fraction

The SV reconstructed ion chromatograms are labelled as:

IS1	1,4-Dichlorobenzene-d4	IS
IS2	Naphthalene-d8	IS
IS3	Acenaphthene-d10	IS
IS4	Phenanthrene-d10	IS
IS5	Chrysene-d12	IS
IS6	Perylene-d12	IS
S1	Nitrobenzene-d5	SS
S2	2-Fluorobiphenyl	SS
S3	Terphenyl-d14	SS
S4	Phenol-d5	SS
S5	2-Fluorophenol	SS
S6	2,4,6-Tribromophenol	SS
S7	2-Chlorophenol-d4	SS
S8	1,2-Dichlorobenzene-d4	SS

IS = Internal Standard
SS = Surrogate Standard

The Sample CPS50 (Ceimic ID 941111-11) was extracted out of holding time.

The Sample CPS49 (Ceimic ID 941111-10) was concentrated down to 1 ml instead of 0.5 ml because of the formation of two layers at the lower volume, furthermore the sample was diluted by 1:100 for analysis.

C. Pest Fraction

PBLK01 has low TCX recovery.

Deviations from the SOW

None other than specified above.

End of SDG Narrative

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

Miguel Muzzio, Laboratory Manager

January 25 1995

Date

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable): —

Case No.: 23081

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: III

Sampling Co.: MDE/ERRP

5. Date Shipped:

Carrier: Fed Ex

7. Date Received -- Received by: 12/23/94 [signature]

Sampler (Name): Chris Pajak

Airbill Number: 202 369 8482

Laboratory Contract Number: 68D20021

Unit Price: 994.00

Sampler Signature: [signature]

6. Ship To: Ceimic Corporation, 10 Dean Knauss Drive, Narragansett RI 02832, ATTN: Sample Custodian

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF			RIFS	CLEM
PRP		PA	RD	REMA
ST	X	SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
CPS 35	2	L	G	1,6	X	X	X		3-1191561 to 3-1191562	Res-1	12/22/94 1100	[illegible]	MCQN35	good			
CPS 36	2	L	G	1,6	X	X	X		3-1191563 to 3-1191564	Res-2	12/22/94 1000	KHR	MCQN36				
CPS 37	2	L	G	1,6	X	X	X		3-1191567 to 3-1191570	Res-3	12/22/94 1200	KHR	MCQN37				
CPS 38	2	L	G	1,6	X	X	X		3-1191571 to 3-1191574	Res-4	12/22/94 1020	KHR	MCQN38				
CPS 39	2	L	G	1,6	X	X	X		3-1191575 to 3-1191578	Res-5	12/22/94 1000	KHR	MCQN39				
CPS 34	4	L	G	1	X				3-1191646 AND 3-1191647	TB-1	12/22/94 0950	PWS	—				

Shipment for Case complete? (Y/N): Y

Page 1 of 1

Sample used for a spike and/or duplicate: Do QC on CPS 35

Additional Sampler Signatures: [signature]

Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	12/22/94 1330				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[signature]	12/23/94 11:15		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable): —

Case No.: 23084

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: III

Sampling Co.: MDE/ERRP

5. Date Shipped: 12/21/94

Carrier: Fed Ex

7. Date Received / Received by: 12/22/94

Sampler (Name): Chris Pajak

Airbill Number: 202 369 8460

Laboratory Contract Number: 88D20021

Unit Price: 744.00

Sampler Signature: Chris Pajak

6. Ship To: Celmic Corporation, 10 Dean Knauss Drive, Narragansett RI 02882, ATTN: Sample Custodian

8. Transfer to

Date Received

Received by

Contract Number

Price

4. Type of Activity

Lead		Pre-Remedial		Remedial		Removal	
SF		PA		RIFS		CLEM	
PRP		SSI	X	RD		REMA	
ST	X	LSI		RA		REM	
FED				O&M		OIL	
				NPLD		UST	

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis X: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water – Ms Liq.	Non Water – Ms Liq.
CPS40	1	L	G	1,6	X	X	X		3-1191579 to 3-1191582	SW-1	12-21-94/0920	PWS	MCQN40				
CPS41	1	L	G	1,6	X	X	X		3-1191583 to 3-1191586	SW-2	12/21/94 1110	PWS	MCQN41				
CPS42	1	L	G	1,6	X	X	X		3-1191587 to 3-1191590	SW-3	12/21/94 1030	PWS	MCQN42				
CPS43	1	L	G	1,6	X	X	X		3-1191591 to 3-1191594	SW-4	12/21/94 1135	PWS	MCQN43				
CPS44	5	L	G	6	X	X	X		3-1191595 to 3-1191597	SED-1	12-21-94/0920	PWS	MCQN44				
CPS55	5	L	G	6	X	X	X		3-1191635 to 3-1191637	S-8	12/21/94 1045	PWP	MCQN55				
CPS56	4	L	G	1,6	X	X	X		3-1191638 to 3-1191641	B-1	12/21/94 0930	LHL	MCQN56				
CPS57	4	L	G	1,6	X	X	X		3-1191642 to 3-1191645	RB-1			MCQN57				

LHL 12/21/94 — LHL 12/21/

Shipment for Case complete? (Y/N): N

Page 1 of 2 (2)

Sample used for a spike and/or duplicate

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	12/21/94 1430				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[illegible]	12/22/94 1031		

Split Samples: ☐ Accepted (Signature) ☐ Declined

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EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable): —

Case No.: 23081

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: III

Sampling Co.: MDE/ERRP

5. Date Shipped: 12/21/94

Carrier: Fed Ex

7. Date Received / Received by: 12/22/94 [signature]

Sampler (Name): Chris Pajak

Airbill Number: 202 369 8460

Laboratory Contract Number: 68D20021

Unit Price: 944.00

Sampler Signature: C M Pajak

6. Ship To: Ceimic Corporation
10 Dean Knauss Dr.
Narragansett RI 02882
ATTN: Sample Custodian

8. Transfer to

Date Received

Received by

Contract Number

Price

4. Type of Activity (Remedial / Removal)

Lead		Pre-Remedial		Remedial		Removal	
SF		PRP		RIFS		CLEM	
PRP		PA		RD		REMA	
ST	X	SSI	X	RA		REM	
FED		LSI		O&M		OIL	
				NPLD		UST	

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water – Mis Liq.	Non Water – Mis Liq.
CPS 45	5	L	G	6	X	X	X		3-1191599 to 3-1191601	Sed-2	12/21/94 1110	PWS	MCQN45	good			
CPS 46	5	L	G	6	X	X	X		3-1191603 to 3-1191605	Sed-3	12/21/94 1030	PWS	MCQN46				
CPS 47	5	L	G	6	X	X	X		3-1191607 to 3-1191609	Sed-4	12/21/94 1135	PWS	MCQN47				
CPS 48	5	L	G	6	X	X	X		3-1191611 to 3-1191613 AND 3-1191616	S-1	12/21/94 [illegible]	KWR	MCQN48				
CPS 49	5	L	G	6	X	X	X		3-1191617 to 3-1191619	S-2	12/21/94 1005	[illegible]	MCQN49				
CPS 50	5	L	G	6	X	X	X		3-1191620 to 3-1191622	S-3	12/21/94 1000	[illegible]	MCQN50				
CPS 51	5	L	G	6	X	X	X		3-1191623 to 3-1191625 AND 3-1191628 AND 3-1191630	S-4	12/21/94 1020	KWR	MCQN51				
CPS 52	5	L	G	6	X	X	X		3-1191626 to 3-1191628	S-5	12/21/94 0945	KWR	MCQN52				
CPS 53	5	L	G	6	X	X	X		3-1191629 to 3-1191631	S-6	12/21/94 1045	KWR	MCQN53				
CPS 54	5	L	G	6	X	X	X		3-1191632 to 3-1191634	S-7	12/21/94 1050	KWR	MCQN54				

Shipment for Case complete? (Y/N): N

Page 1 of 2

Sample used for a spike and/or duplicate: Do QC on ~~CPS48~~ CPS51 [illegible] 12/21/94

Additional Sampler Signatures: [illegible]

Chain of Custody Seal Number

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	12/21/94 1430				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[signature]	12/22/94 1015		

PAGE 1 OF 4

EPA SAMPLE SHIPPING LOG

MD/SI

(1) (REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: Chesapeake Shipbuilding ; EPA PROJ. OFFICER: Michael Giuranna
RAS NO. 23084 ; SAS NO. — ; TASK NO. —
PROJECT SITE LEADER: Chris Pajak ; PHONE NO. (410) 631 [illegible]
PROJECT SAMPLE COORDINATOR: Latife H. Lerner ; PHONE NO. (410) 631 3465

SAS REQUEST (DETAILS REQUIRED) (10)

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC. (LOW/MED./HIGH)	SAMPLE PHASE (AQ/SOL.)	TYPE OF REQUEST (ORG. DIO. OR INOR.) SAS	EPA SAMPLE NO.	ORGANICS OR INORGANICS: LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDB	METALS	CN	LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIPPED	DATA REC'D.
(2)	(3)	(4)	(5)	(6)	(7)	(8)	←			(9)		→	(11)	(12)	(13)	
MATRIX SPIKE	Low	AQ	ORG	CPS 35	Ceimic	12/22/94	✓	✓	✓							
				CPS 36			✓	✓	✓							
				CPS 37			✓	✓	✓	×						
				CPS 38			✓	✓	✓	×						
Dup of CPS 36				CPS 39			✓	✓	✓	×	Recd 01/26/95 SC					
Trip Blank				CPS 34			✓	X	X	×						
				CPS 40		12/21/94	✓	✓	✓	×						
				CPS 41			✓	✓	✓	×						
				CPS 42			✓	✓	✓	×						
				CPS 43			✓	✓	✓	×	Recd 01/26/95 SC					
		Sol.		CPS 44			✓	✓	✓	×	Rec'd 1/30/95					
BLANK		AQ		CPS 56			✓	✓	✓	×	Recd 01/26/95 SC					
Dup of CPS 53		Sol		CPS 55			✓	✓	✓	×						
				CPS 45			✓	✓	✓	×						
				CPS 46			✓	✓	✓	×						
				CPS 47			✓	✓	✓							
				CPS 48			✓	✓	✓							
				CPS 49			✓	✓	✓							
				CPS 50			✓	✓	✓		Rec'd 1/30/95					

JAN 1995 RECEIVED

FINAL SAMPLING: YES ☑ ; NO ☐ : FINAL SHIPPING DATE: 12/22/94

REVISION

PAGE 2 OF 4

EPA SAMPLE SHIPPING LOG

MD/SI

(1) (REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: Chesapeake Shipbuilding ; EPA PROJ. OFFICER: Michael Guarana
RAS NO. 23084 ; SAS NO. — ; TASK NO. —
PROJECT SITE LEADER: Chris Pajak ; PHONE NO. (410) 631-3493
PROJECT SAMPLE COORDINATOR: Latife H. Leraas ; PHONE NO. (410) 631-3465

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC. (LOW/ MED./ HIGH)	SAMPLE PHASE (AQ/ SOL.)	TYPE OF REQUEST (ORG. INO. OR INOR) SAS	EPA SAMPLE No.	ORGANICS OR INORGANICS: LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDD	METALS	CN	SAS REQUEST (DETAILS REQUIRED) (10): LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIPPED	DATA REC'D.
(2)	(3)	(4)	(5)	(6)	(7)	(8)	←			(9)		→	(11)	(12)	(13)	
MATRIX SPIKE	Low	Sol.	ORG	CPS 51	Ceimic	12/21/94	✓	✓	✓							
				CPS 52			✓	✓	✓							
				CPS 53			✓	✓	✓	X						
				CPS 54			✓	✓	✓	X	rec. 1/10/95					
										X						
										X						
										X						
										X						
										X						
										X						
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										X						
										X						
										X						
										X						
										X						
										X						
										X						

JAN 1995 RECEIVED

FINAL SAMPLING: YES ☒ : NO ☐ · FINAL SHIPPING DATE: 12-22-94 REVISION

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Lab File ID (Standard): EG531 Date Analyzed: 12/27/94

Instrument ID: MS5 Time Analyzed: 1610

GC Column: HP-624 ID: 0.530 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	42171	5.53	198571	7.81	147316	14.69
	UPPER LIMIT	84342	6.03	397142	8.31	294632	15.19
	LOWER LIMIT	21086	5.03	99286	7.31	73658	14.19
	EPA SAMPLE NO.						
01	CPS48	30388	5.53	126236	7.80	69362 *	14.67
02	CPS51MS	35480	5.52	164323	7.81	95918	14.66
03	CPS51MSD	34632	5.51	162148	7.80	95375	14.65
04	VBLKES	46046	5.53	216817	7.81	155643	14.68

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Lab File ID (Standard): EG552 Date Analyzed: 12/28/94

Instrument ID: MS5 Time Analyzed: 1104

GC Column: HP-624 ID: 0.530 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	49733	5.55	225299	7.83	158042	14.69
	UPPER LIMIT	99466	6.05	450598	8.33	316084	15.19
	LOWER LIMIT	24866	5.05	112650	7.33	79021	14.19
	EPA SAMPLE NO.						
01	CPS48RE	32452	5.53	136551	7.83	77914 *	14.70
02	CPS49	22342 *	5.53	67860 *	7.82	25651 *	14.69
03	CPS49RE	37155	5.53	108258 *	7.83	38717 *	14.68
04	VBLKET	48597	5.55	221837	7.83	153542	14.70

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: SEIMIC CORP Contract: [illegible]

Lab Code: SEIMIC Case No.: 23384 SAS No.: SDG No.: CPS40

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	CPS35	64	71	58	63	61	71	68	63	0
02	CPS36	61	69	65	61	63	74	70	66	0
03	CPS37	66	76	64	64	63	68	68	66	0
04	CPS38	77	86	68	73	72	80	77	74	0
05	CPS39	61	73	65	61	64	72	68	63	0
06	CPS40	68	64	39	61	60	74	64	66	0
07	CPS41	63	67	28 *	54	59	59	59	62	1
08	CPS42	62	67	42	59	61	67	64	65	0
09	CPS43	69	67	41	73	63	69	71	71	0
10	CPS56	69	70	81	64	68	75	77	70	0
11	CPS35MS	73	85	71	80	76	80	87	77	0
12	CPS35MSD	79	89	76	77	73	86	83	76	0
13	SBLKJF	45	63	90	30	27	84	38	40	0
14	SBLKAC	46	64	83	30	28	66	42	39	0
15	SBLKAI	75	73	68	63	66	74	70	63	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2.4.6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1.2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

ab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

evel:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	CPS44	66	76	90	76	75	67	77	65	0
02	CPS45	54	67	92	61	57	74	63	53	0
03	CPS46	65	77	108	69	62	54	69	62	0
04	CPS47	60	66	74	63	60	57	66	58	0
05	CPS48	68	70	87	64	62	39	64	63	0
06	CPS49	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
07	CPS50	77	75	90	60	47	50	57	71	0
08	CPS51	63	67	88	62	58	54	64	55	0
[illegible]	CPS52	72	70	94	68	62	44	69	68	0
[illegible]	CPS53	69	72	87	63	47	24	57	67	0
11	CPS54	63	70	94	60	54	52	60	57	0
12	CPS55	67	74	90	59	40	17 *	52	67	1
13	CPS51MS	70	73	81	65	45	28	62	65	0
14	CPS51MSD	71	77	100	65	63	61	72	65	0
15	SBLKAJ	84	85	92	78	78	70	84	81	0
16	SBLKJA	57	55	97	50	47	81	53	56	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: [illegible] Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: SDG No.: CPS40

Matrix Spike - EPA Sample No.: CPS25

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	0	52.54	70	12-110
2-Chlorophenol	75.00	0	55.34	74	27-123
1,4-Dichlorobenzene	50.00	0	35.62	71	36- 97
N-Nitroso-di-n-prop. (1)	50.00	0	31.81	64	41-116
1,2,4-Trichlorobenzene	50.00	0	37.47	75	39- 98
4-Chloro-3-methylphenol	75.00	0	53.67	72	23- 97
Acenaphthene	50.00	0	40.39	81	46-118
4-Nitrophenol	75.00	0	59.53	79	10- 80
2,4-Dinitrotoluene	50.00	0	41.11	82	24- 96
Pentachlorophenol	75.00	0	63.31	94	9-103
Pyrene	50.00	0	41.14	82	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	50.13	67	4	42	12-110
2-Chlorophenol	75.00	49.52	66	11	40	27-123
1,4-Dichlorobenzene	50.00	34.89	70	1	28	36- 97
N-Nitroso-di-n-prop. (1)	50.00	31.62	63	2	38	41-116
1,2,4-Trichlorobenzene	50.00	38.03	76	1	28	39- 98
4-Chloro-3-methylphenol	75.00	56.48	75	4	42	23- 97
Acenaphthene	50.00	40.75	82	1	31	46-118
4-Nitrophenol	75.00	61.66	82 *	4	50	10- 80
2,4-Dinitrotoluene	50.00	43.02	86	5	38	24- 96
Pentachlorophenol	75.00	62.68	84	0	50	9-103
Pyrene	50.00	41.86	84	2	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:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

b Name: CEIMIC CORP Contract: 68-D2-0021

ab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

trix Spike - EPA Sample No.: CPS51 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3020	0	1811	60	26- 90
2-Chlorophenol	3020	0	1468	49	25-102
1,4-Dichlorobenzene	2010	0	1161	58	28-104
N-Nitroso-di-n-prop. (1)	2010	0	1341	67	41-126
1,2,4-Trichlorobenzene	2010	0	1323	66	38-107
4-Chloro-3-methylphenol	3020	0	1288	43	26-103
Acenaphthene	2010	59.19	1405	67	31-137
4-Nitrophenol	3020	0	2231	74	11-114
2,4-Dinitrotoluene	2010	0	1400	70	28- 89
Pentachlorophenol	3020	0	293.9	10 *	17-109
Pyrene	2010	763.5	2162	70	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3000	1992	66	10	35	26- 90
2-Chlorophenol	3000	1808	60	20	50	25-102
1,4-Dichlorobenzene	2000	1164	58	0	27	28-104
N-Nitroso-di-n-prop. (1)	2000	1345	67	0	38	41-126
1,2,4-Trichlorobenzene	2000	1419	71	7	23	38-107
4-Chloro-3-methylphenol	3000	2060	69	46 *	33	26-103
Acenaphthene	2000	1521	73	9	19	31-137
4-Nitrophenol	3000	1959	65	13	50	11-114
2,4-Dinitrotoluene	2000	1367	68	3	47	28- 89
Pentachlorophenol	3000	908.1	30	100 *	47	17-109
Pyrene	2000	2220	73	4	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

D: 2 out of 11 outside limits
pike Recovery: 1 out of 22 outside limits

MMENTS: 941111-12
EPA CPS51 SOIL 2 ULI

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	108	112	123	110			0
02	PBLK02	68	78	85	79			0
03	CPS35	86	91	100	93			0
04	CPS36	80	80	91	85			0
05	CPS37	90	87	93	86			0
06	CPS38	72	71	77	72			0
07	CPS39	82	79	86	80			0
08	CPS40	104	102	92	89			0
09	CPS41	98	97	94	89			0
10	CPS42	74	72	70	67			0
11	CPS43	102	108	110	104			0
12	CPS56	122	124	129	121			0
13	CPS35MS	86	84	88	84			0
14	CPS35MSD	60	59*	64	60			1

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II PEST-1 ~~525~~ 523 3/90

Revised 8m 1/25/95

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	4*	2*	79	77			2
02	CPS44	39*	43*	73	78			2
03	CPS45	54*	76	97	62			1
04	CPS46	68	85	95	66			0
05	CPS47	67	72	80	76			0
06	CPS48	68	70	88	65			0
07	CPS49	58*	74	44*	51*			3
08	CPS50	63	72	74	60			0
09	CPS51	80	82	98	72			0
10	CPS52	54*	56*	73	55*			3
11	CPS53	69	76	84	76			0
12	CPS54	70	77	91	76			0
13	CPS55	56*	62	76	76			1
14	CPS51MS	60	62	86	63			0
15	CPS51MSD	73	74	93	72			0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix Spike - EPA Sample No.: CPS35

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMIT REC.
gamma-BHC (Lindane)	0.500	0	0.527	105	56-12
Heptachlor	0.500	0	0.415	83	40-131
Aldrin	0.500	0	0.452	90	40-120
Dieldrin	1.000	0	0.878	88	52-12
Endrin	1.000	0	1.01	101	56
4,4'-DDT	1.000	0	0.940	94	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0.350	70	40 *	15	56-12
Heptachlor	0.500	0.284	57	37 *	31	40-13
Aldrin	0.500	0.299	60	40 *	22	40-120
Dieldrin	1.000	0.576	58	41 *	18	52-126
Endrin	1.000	0.659	66	42 *	21	5
4,4'-DDT	1.000	0.608	61	43 *	27	38-127

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

* Values outside of QC limits

RPD: 6 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

CPS48

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Lab Sample ID : 941111-09 Dates(s) Analyzed: 01/09/95 01/09/95

Instrument ID (1): AD9 1 Instrument ID (2): AD8 1

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	16.51	16.45	16.59	8.76	
	2	15.10	15.05	15.19	10.8	23.3
4,4'-DDD	1	18.49	18.43	18.57	7.81	
	2	17.74	17.66	17.80	10.1	29.3
4,4'-DDT	1	19.54	19.48	19.62	34.3	
	2	18.29	18.23	18.37	29.6	15.9
alpha-Chlordane	1	15.54	15.47	15.61	2.30	
	2	14.73	14.65	14.79	4.42	92.2

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO

CPS45

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Lab Sample ID : 941111-06 Dates(s) Analyzed: 01/09/95 01/09/95

Instrument ID (1): AD9 1 Instrument ID (2): AD8 1

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	14.97	14.93	15.07	372		
Aroclor-1254	2	15.23	15.17	15.31	38.2		
	3	16.18	16.11	16.25	20.6		
COLUMN 1	4						
	5					140	
	1	11.15	11.03	11.17	71.1		
	2	15.84	15.79	15.93	128		
	3	16.62	16.57	16.71	333		
COLUMN 2	4						
	5					180	28

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2

3/90

10B

PESTICIDE IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CPS46

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Lab Sample ID : 941111-07 Dates(s) Analyzed: 01/09/95 01/09/95

Instrument ID (1): AD9 1 Instrument ID (2): AD8 1

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	17.05	16.98	17.12	131		
Aroclor-1260	2	17.67	17.61	17.75	37.9		
	3	17.98	17.93	18.07	72.5		
COLUMN 1	4						
	5					80	
	1	15.84	15.78	15.92	42.0		
	2	16.62	16.57	16.71	56.5		
	3	18.90	18.85	18.99	35.7		
COLUMN 2	4						
	5					45	77.8

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO

CPS48

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Lab Sample ID : 941111-09 Dates(s) Analyzed: 01/09/95 01/09/95

Instrument ID (1): AD9 1 Instrument ID (2): AD8 1

GC Column(1): DB608 ID: 0.53(mm) GC Column(2): DB1701 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	17.04	16.98	17.12	51.0		
Aroclor-1260	2	17.67	17.61	17.75	33.5		
	3	17.98	17.93	18.07	19.7		
COLUMN 1	4						
	5					35	
	1	15.84	15.78	15.92	31.0		
	2	16.60	16.57	16.71	74.5		
	3	18.90	18.85	18.99	37.8		
COLUMN 2	4						
	5					48	37.

At least 3 peaks are required for identification of multicomponent analyte

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS35MS

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ904

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	3	BJ
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	50	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	51	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	47	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	46	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS35MSD

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ905

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	3	BJ
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	44	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	48	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	44	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	41	
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS33MS

Lab Name: SEIMIC CORP Contract: 68-D2-0021

Lab Code: SEIMIC Case No.: 33084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF817

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	53	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	55	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	36	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	32	
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
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	37	
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	54	
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	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	40	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS3EMS

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23004 SAS No.: CDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF817

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	60	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	41	
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	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	63	
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
86-74-8	Carbazole	10	U
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

512

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TRA SAMPLE NO.

TROZEMSD

Lab Name: SEIMIC CORP Contract: 18-D2-0021

Lab Code: SEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MSD

Sample Wt/vol: 1000 (g/mL) ML Lab File ID: 3F018

Level: (low/med) LOW Date Received: 12/23/94

Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	50	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	50	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	35	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	32	
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
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	38	
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	56	
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	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	41	

515

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS25MSD

Lab Name: CEIMIC CORP Contract: [illegible]

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9F818

Level: (low/med) LOW Date Received: 12/23/94

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	62	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	43	
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	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	63	
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
86-74-8	Carbazole	10	U
129-00-0	Pyrene	42	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(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. (ORIGINAL)

CPS51MS

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12MS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG544

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 15 Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	55	
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	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	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	51	
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	51	
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	53	
108-90-7	Chlorobenzene	55	
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS51MSD

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG545

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: not dec. 15 Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	2	BJ
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	46	
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	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	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	46	
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	46	
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	46	
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS51MS

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12MS

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF846

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	1500	
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	1200	
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	1300	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	1300	
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	1300	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethyl Phthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	1400	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS51MS

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12MS

Sample wt/vol: 30.3 (g/mL) G Lab File ID: AF846

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/14/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	2200	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-Methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	290	J
85-01-8	Phenanthrene	280	J
120-12-7	Anthracene	400	U
84-74-2	Di-n-Butylphthalate	400	U
206-44-0	Fluoranthene	360	
86-74-8	Carbazole	*400	U
129-00-0	Pyrene	2200	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	230	J
218-01-9	Chrysene	240	J
117-81-7	bis(2-Ethylhexyl)Phthalate	400	U
117-84-0	Di-n-Octyl Phthalate	400	U
205-99-2	Benzo(b)Fluoranthene	360	J
207-08-9	Benzo(k)Fluoranthene	160	J
50-32-8	Benzo(a)Pyrene	190	J
193-39-5	Indeno(1,2,3-cd)Pyrene	180	J
53-70-3	Dibenzo(a,h)Anthracene	59	J
191-24-2	Benzo(g,h,i)Perylene	190	J

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS51MSD

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12MSD

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF838

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2000	
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	1800	
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	1200	
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	1300	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	1400	
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	2100	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethyl Phthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	960	U
83-32-9	Acenaphthene	1500	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

CPS51MSD

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12MSD

Sample wt/vol: 30.5 (g/mL) G Lab File ID: AF838

Level: (low/med) LOW Date Received: 12/22/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/13/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	960	U
100-02-7	4-Nitrophenol	2000	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	960	U
534-52-1	4,6-Dinitro-2-Methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	910	J
85-01-8	Phenanthrene	120	J
120-12-7	Anthracene	400	U
84-74-2	Di-n-Butylphthalate	400	U
206-44-0	Fluoranthene	160	J
86-74-8	Carbazole	400	U
129-00-0	Pyrene	2200	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	130	J
218-01-9	Chrysene	130	J
117-81-7	bis(2-Ethylhexyl)Phthalate	120	J
117-84-0	Di-n-Octyl Phthalate	400	U
205-99-2	Benzo(b)Fluoranthene	170	J
207-08-9	Benzo(k)Fluoranthene	50	J
50-32-8	Benzo(a)Pyrene	110	J
193-39-5	Indeno(1,2,3-cd)Pyrene	82	J
53-70-3	Dibenzo(a,h)Anthracene	400	U
191-24-2	Benzo(g,h,i)Perylene	77	J

(1) - Cannot be separated from Diphenylamine

983

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CPS35MS

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MS

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/23/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

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)	0.53	
76-44-8	Heptachlor	0.42	
309-00-2	Aldrin	0.45	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.88	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.0	
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	0.94	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPL

CPS35MSD

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 941111-19MS

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 12/23/94

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/07/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		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)	0.35	
76-44-8	Heptachlor	0.28	
309-00-2	Aldrin	0.30	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.58	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.66	
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	0.61	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	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 N

CPS51MB

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12MS

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

% Moisture: 18 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	16	
76-44-8	Heptachlor	13	
309-00-2	Aldrin	13	
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	27	
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	36	
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	32	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPL

CPS51MSI

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: 941111-12M

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

% Moisture: 18 decanted: (Y/N) N Date Received: 12/22/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	18	
76-44-8	Heptachlor	15	
309-00-2	Aldrin	15	
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	30	
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	41	
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	37	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCD

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V31223-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ842

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	4	J
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	4	J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

382
M 0/05
~~12~~

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCD

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V31223-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ842

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	19.32	5	J

383

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCF

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: V31228-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ903

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	3	J
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	5	J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBLKCF

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: V31228-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ903

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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.

VBLKCG

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: V31229-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ927

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCG

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: V31229-B1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CJ927

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/29/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	19.53	7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEQ

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51223-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG470

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	4	J
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEQ

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51223-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG470

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/23/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKER

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51226-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG507

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	3	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	2	J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBLKER

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51226-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG507

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/25/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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.

VBLKCE

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V31227-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ877

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/27/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	6	J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBLKCE

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V31227-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: CJ877

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/27/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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.

VBLKES

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51227-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG532

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/27/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	2	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	2	J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBLKES

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51227-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG532

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/27/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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.

VBLKET

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51228-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG553

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

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	3	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	2	J
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBLKET

Lab Name: CEIMIC CORP Contract: 63-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: V51228-B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: EG553

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/28/94

GC Column: HP-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

[illegible] SEMIVOLATILE ORGANICS [illegible] DATA SHEET

EPA SAMPLE NO.

SBLKJF

Lab Name: SEIMIC CORP Contract: [illegible]

Lab Code: SEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix (soil/water) WATER Lab Sample ID: 31227-B3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB598

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/06/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

QV

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKJF

Lab Name: SEIMIC CORP Contract: [illegible]

Lab Code: SEIMIC Case No.: 22084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 31227-B3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB598

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/06/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	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	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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
86-74-8	Carbazole	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	3	J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	2	J
218-01-9	Chrysene	2	J
117-81-7	bis(2-Ethylhexyl)Phthalate	5	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	2	J
207-08-9	Benzo(k)Fluoranthene	2	J
50-32-8	Benzo(a)Pyrene	1	J
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenzo(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

[illegible]

[illegible] ORGANIC ANALYSIS DATA [illegible]

[illegible] IDENTIFIED COMPOUNDS

EPA SAMPLE [illegible]

[illegible]

Lab Name: [illegible] CORP Contract: [illegible]

Lab Code: [illegible] Case No.: [illegible] SAS No.: SDG No.: [illegible]

Matrix: (soil/water) WATER Lab Sample ID: [illegible]

Sample wt/vol: 1000 (g/mL) ML Lab File ID: JB598

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/06/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

[illegible] Cleanup: (Y/N) N pH: 7.0

Number TICs found: [illegible] CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAC

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: S1227-B3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF776

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/10/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

Qv

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAC

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: S1227-B3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF776

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/10/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25 U	
100-02-7	4-Nitrophenol	25 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	25 U	
534-52-1	4,6-Dinitro-2-Methylphenol	25 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	25 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	
86-74-8	Carbazole	10 U	
129-00-0	Pyrene	10 U	
85-68-7	Butylbenzylphthalate	10 U	
91-94-1	3,3'-Dichlorobenzidine	10 U	
56-55-3	Benzo(a)Anthracene	10 U	
218-01-9	Chrysene	10 U	
117-81-7	bis(2-Ethylhexyl)Phthalate	2 J	
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	Dibenzo(a,h)Anthracene	10 U	
191-24-2	Benzo(g,h,i)Perylene	10 U	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKAC

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: S1227-B3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF776

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/27/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/10/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

500

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

SELKAI

Lab Name: CEIMIC CORP Contract: 68-D0 0021

Lab Code: CEIMIC Case No.: 23034 SAS No.: SDG No.: CPS40

Matrix (soil/water) WATER Lab Sample ID: 01223-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF813

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	Qv
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	
95-50-1	1,2-Dichlorobenzene	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
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	25	U	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	25	U	
131-11-3	Dimethyl Phthalate	10	U	
208-96-8	Acenaphthylene	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TRA SAMPLE NO.

SBLKAI

Lab Name: SEIMIC CORP Contract: [illegible]

Lab Code: SEIMIC Case No.: 32084 SAS No.: SDG No.: SPS40

Matrix: (soil/water) WATER Lab Sample ID: 01228-B2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AF815

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
51-28-5	2,4-Dinitrophenol	25	U	
100-02-7	4-Nitrophenol	25	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	25	U	
534-52-1	4,6-Dinitro-2-Methylphenol	25	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	25	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	
86-74-8	Carbazole	10	U	
129-00-0	Pyrene	10	U	
85-68-7	Butylbenzylphthalate	10	U	
91-94-1	3,3'-Dichlorobenzidine	10	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	Dibenzo(a,h)Anthracene	10	U	
191-24-2	Benzo(g,h,i)Perylene	10	U	

(1) - Cannot be separated from Diphenylamine

506

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TRF SAMPLE NO.

ORIGINAL (Red)

TBLKAI

Lab Name: SEIMIC CORP Contract: 68-D2-0021

Lab Code: SEIMIC Case No.: 23084 SAS No.: SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: 31228-52

Sample Wt/vol: 1000 (g/mL) ML Lab File ID: AF815

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) Date Extracted: 12/28/94

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

507

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKAJ

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: S1231-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AF816

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

SBLKAJ

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: G1231-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AF816

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	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	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	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	800	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
86-74-8	Carbazole	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	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	Dibenzo(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.

SBLKAJ

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: S1231-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: AF816

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 12/31/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/12/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Cyclohexanyedimethyl isomer	4.28	130	J
~~2. 141797~~	~~3-Penten-2-one, 4-methyl-~~	~~4.62~~	~~130~~	~~AJN~~
3. 000000	Unknown	4.92	430	J
~~4. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.22~~	~~83000~~	~~AJN~~
5. 000000	Unknown	6.48	570	J
6. 000000	Unknown	6.97	67	J
7. 000000	Unknown	7.50	670	J
8. 000000	Unknown	7.79	370	J
9. 000000	Unknown	7.90	230	J
10. 000000	Unknown	8.06	67	J
11. 4291796	Cyclohexane, 1-methyl-2-propy	8.23	570	JN
12. 000000	Unknown	12.38	300	J
13. 000000	Unknown	12.51	100	J

Br 2+

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKJA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: S0116-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JB799

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 01/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/17/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
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	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

ORIGINAL (Red)

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKJA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: S0116-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JB799

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 01/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/17/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	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	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	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	800	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
86-74-8	Carbazole	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	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	Dibenzo(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.

SBLKJA

Lab Name: CEIMIC CORP Contract: 68-D2-0021

Lab Code: CEIMIC Case No.: 23084 SAS No.: SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: S0116-B1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: JB799

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 01/16/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 01/17/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000	Unknown	5.39	100	J
~~2. 141797~~	~~3-Penten-2-one, 4-methyl~~	~~5.50~~	~~670~~	~~AJN~~
~~3. 123422~~	~~2-Pentanone, 4-hydroxy-4-met~~	~~6.46~~	~~57000~~	~~AJN~~
4. 000000	Unknown	6.75	230	J
5. 000000	Unknown	7.56	430	J
6. 000000	Unknown	7.78	200	J
7. 000000	Unknown	7.89	100	J
8. 000000	C4-cyclohexane isomer	8.09	370	J
9. 000000	Unknown	16.87	470	J

BM 2/1

ORIGINAL (Red)

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE
PBLK01

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS44

Matrix: (soil/water) SOIL Lab Sample ID: P1231-B1

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/31/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK09

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: P1227-B1

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/27/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

ORIGINAL (Red)

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

PBLK02

Lab Name: CEIMIC CORP Contract: 68D20021

Lab Code: CEIMIC Case No.: 23084 SAS No.: _____ SDG No.: CPS40

Matrix: (soil/water) WATER Lab Sample ID: P1228-B1

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/94

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	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
7421-93-4	Endrin aldehyde	0.10 U
5103-71-9	alpha-Chlordane	0.050 U
5103-74-2	gamma-Chlordane	0.050 U
8001-35-2	Toxaphene	5.0 U
12674-11-2	Aroclor-1016	1.0 U
11104-28-2	Aroclor-1221	2.0 U
11141-16-5	Aroclor-1232	1.0 U
53469-21-9	Aroclor-1242	1.0 U
12672-29-6	Aroclor-1248	1.0 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U