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RCRA FACILITY INVESTIGATION
DATA VALIDATION REPORT — ASSEMBLY A
NAVAL AIR STATION MEMPHIS
MILLINGTON, TENNESSEE

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ATTACHMENT A
VOLUME II of II

CTO-0094

Prepared for:

Department of the Navy
Southern Division
Naval Facilities Engineering Command
Charleston, South Carolina

SOUTHDIV CONTRACT NUMBER:
N62467-89-D-0318

Prepared by:

EnSafe/Allen & Hoshall
5720 Summer Trees Drive, Suite 8
Memphis, Tennessee 38134
(901) 383-9115

September 8, 1995

Attachment A

Data Validation Summary Narratives

and

Data Tables

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 3)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00038, 95.00039, 95.00071, 95.00072, 95.00093, and 95.00094 (Level III Validation)
Case Nº:	FD1303

Sample Identification	Matrix
001D011095	Water
1BGS000101	Soil
1BGS000110	Soil
3BGS000301	Soil
3BGS000310	Soil
1BG2000100	Soil
4BGS000401	Soil
4BGS000411	Soil
BG2E011195	Water
BG2F011195	Water
2BGS000201	Soil
2BGS000210	Soil
5BGS000501	Soil
5BGS000510	Soil
5BGC000510	Soil
1BG2000100S	Soil
1BG2000100D	Soil

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INTRODUCTION

This data review report covers 14 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form X), inter-element corrections (Form XI A & B) and linear range analysis (Form XII) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field Trip, or other Blank (µg/L)	Action Level (5x high. blk.)		Associated Samples
				(mg/kg)	(µg/L)		Soil (mg/kg)	Water (µg/L)	
Aluminum									
Antimony	40.0		57.2			40.0	57.2	286	All
Cadmium	3.0		-3.4	-0.63			3.4	17.0	All
Chromium	5.0			1.33	6.65	7.4	7.4	37.0	All
Copper	5.0			1.656			8.28	41.4	All
Lead	2.0					2.6	2.6	13	All
Nickel	15.0		19.1			24.1	24.1	120.5	All
Silver	3.1	3.5	9.9	1.072	8.24	8.9	9.9	49.5	All
Tin	15.0	26.6	74.6	5.662	-87.32	44.2	87.32	436.6	All
Vanadium	4.0								
Zinc	5.0								

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
1BGS101	Antimony	13.4B	13.4U
	Cadmium	1.9	1.9U
	Nickel	10.7	10.7U
	Silver	1.2B	1.2U
	Tin	25.7B	25.7U
1BGS110	Nickel	19.4	19.4U
	Silver	1.7B	1.7U
	Tin	32.3B	32.3U
3BGS301	Antimony	10.8B	10.8U
	Cadmium	3.0	3.0U
	Nickel	15.8	15.8U
	Silver	1.5B	1.5U
	Tin	31.9B	31.9U
3BGS310	Cadmium	2.9	2.9U
	Nickel	21.5	21.5U
	Silver	1.9B	1.9U
	Tin	22.6B	22.6U
1BG210	Antimony	8.7B	8.7U
	Cadmium	2.0	2.0U
	Silver	1.2B	1.2U
4BGS401	Cadmium	3.0	3.0U
	Nickel	20.8	20.8U
	Silver	1.6B	1.6U
	Tin	23.9B	23.9U
4BGS411	Cadmium	2.3	2.3U
	Nickel	18.1	18.1U
	Silver	1.7B	1.7U
	Tin	29.1B	29.1U
2BGS201	Cadmium	1.7	1.7U
	Nickel	12.8	12.8U
	Silver	1.6B	1.6U
	Tin	21.3B	21.3U
2BGS210	Cadmium	2.4	2.4U
	Nickel	14.2	14.2U
	Silver	1.8B	1.8U
	Tin	22.5B	22.5U
5BGS501	Cadmium	2.3	2.3U
	Nickel	10.1	10.1U
	Silver	1.5B	1.5U
	Tin	22.7B	22.7U
5BGS510	Cadmium	1.8	1.8U
	Nickel	14.1	14.1U
	Silver	2.5B	2.5U
	Tin	22.8B	22.8U
5BGC510	Cadmium	2.2	2.2U
	Silver	2.0B	2.0U
	Tin	38.7B	38.7U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

Analytes that are not present in the ICS solution but have an absolute value > IDL are listed below:

Sample	Element	Initial Found (µg/L)	Final Found (µg/L)	IDL (µg/L)	Affected Sample	Affected Element	Flag
ICSA	Barium	22	22	2.0	1BG210	Ag	J
	Cadmium	31	28	3.0	1BG210D		
	Chromium	-18	-18	5.0			
	Copper	21	23	5.0			
	Silver	6	11	3.0			
	Vanadium	-11	-10	4.0			
	Zinc	64	64	5.0			

Samples 1BG210 and 1BG210D have comparable or higher levels of interferants than the ICS solution. Silver concentrations in these two samples approximate those levels found in the ICS. Therefore, Silver results in samples 1BG210 and 1BG210D were qualified as estimated.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met except for the following:

Element	RPD	QC Limit	Associated Samples	Flag
Lead	103.8	35%	All	J

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	%R	Associated Samples	Qualifications	Flag
Antimony	12.8	All	75-125%	+J/-R
Arsenic	-17.4	All	75-125%	+J/-R
Cadmium	73.9	All	75-125%	+J/-UJ
Cobalt	71.4	All	75-125%	+J/-UJ
Nickel	72.6	All	75-125%	+J/-UJ
Selenium	37.5	All	75-125%	+J/-UJ
Thallium	26.4	All	75-125%	+J/-R
Zinc	74.0	All	75-125%	+J/-UJ
Tin	45.5	All	75-125%	+J/-UJ

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. GRAPHITE FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within $\pm$20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
1BGS101	Selenium	116	85-115%	UJ
1BG210D	Selenium Lead	46.0 74.5	85-115% 85-115%	None(MSA passed) None(MSA passed)
3BGS310	Lead Selenium	78.5 82.0	85-115% 85-115%	None(MSA passed) UJ
5BGS510	Arsenic Selenium	125.8 83.5	85-115% 85-115%	None(MSA passed) UJ
5BGC510	Arsenic	115.5	85-115%	J(MSA failed)
1BG210D	Arsenic	65	85-115%	J(MSA failed)
1BG210	Selenium	56	85-115%	UJ

MSA was performed and the results were within QC limit.

The following samples/elements have correlation coefficients <0.995 and are qualified as (J):

Sample	Element	Correlation Coefficient	QC Limit	Flag
1BG210D	Arsenic	0.9851	0.995	J
5BGC510	Arsenic	0.9924	0.995	J

MSA was required for the following samples but were not performed

Sample	Element	Flag
1BGS101	Selenium	UJ
5BGS510	Selenium	UJ
1BG210	Selenium	UJ
3BGS310	Selenium	UJ

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met except for the following:

Element	IDL (µg/L)	50 x IDL (µg/L)	I (µg/L)	S (µg/L)	%D	Associated Samples	Flag
Barium	2.0	100	482.9	411.9	14.7	All	J(detects)/None(non-detects)
Tin	15.0	750	817.4	181.81	77.8	All	J(detects)/None(non-detects)
Zinc	5.0	250	392.6	348.3	11.3	All	J(detects)/None(non-detects)

I = Initial sample results
S = Serial dilution result (instrument reading x 5)

X. SAMPLE RESULTS VERIFICATION

No raw data were reviewed.

XI. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within RPD limit.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1303

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1303	1BGS101 3BGS301	Antimony Cadmium Nickel Silver Tin	U	Blank contamination
FD1303	3BGS310 4BGS401 4BGS411 2BGS201 2BGS210 5BGS501 5BGS510	Cadmium Nickel Silver Tin	U	Blank contamination
FD1303	1BGS110	Nickel Silver Tin	U	Blank contamination
FD1303	1BG210	Antimony Cadmium Silver	U	Blank contamination
FD1303	5BGC510	Cadmium Silver Tin	U	Blank contamination
FD1303	1BG210 1BG210D	Silver	J	ICS > IDL
FD1303	All	Lead	J	Duplicate RPD out
FD1303	All	Antimony Arsenic Thallium	J(detects)/R(non-detects)	MS %R out
FD1303	All	Cadmium Cobalt Nickel Selenium Zinc Tin	J(detects)/UJ(non-detects)	MS %R out
FD1303	5BGC510 1BG210D	Arsenic	J	Analytical spike %R out and MSA failed.
FD1303	1BGS101 5BGS510 1BG210 3BGS310	Selenium	UJ	Analytical spike %R out and MSA was not performed
FD1303	All	Barium Zinc Tin	J(detects)/None(non-detects)	ICP serial dilution %D out
FD1303	All	Barium Tin Zinc	J	Serial dilution

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DATA VALIDATION REPORT (Revision 2)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00038, 95.00039, 95.00071, 95.00072, 95.00093, & 95.00094 (Level III Validation)
Case Nº:	FD1303

Sample Identification	Matrix
001D011095	Water
001T011095	Water
BG2E011195	Water
BG2F011195	Water
BG2T011195	Water
BG5T011295	Water
1BGS000101	Soil
1BGS000110	Soil
2BGS000201	Soil
2BGS000210	Soil
3BGS000301	Soil
3BGS000310	Soil
4BGS000401	Soil
4BGS000411	Soil
5BGC000510	Soil
5BGS000501	Soil
5BGS000510	Soil
1BGS000100	Soil
3BGS000301MS	Soil
3BGS000301MSD	Soil

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INTRODUCTION

This data review report covers 14 soil samples and 6 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements.

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
01/13/95 11:46	HP5970E	Chloromethane Bromomethane Carbon disulfide	-38.4 (±25.0%) -26.4 (±25.0%) -26.3 (±25.0%)	BG2T011195	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
01/17/95 11:58	HP5907E	Acetone	-79.3 (±25.0%)	BG2E011195 BG2F011195 BG5T011295	J(detect)/UJ(non-detect)
01/18/95 10:44	HP5907E	Acetone	-40.7 (±25.0%)	001D011095 1BGS000100	J(detect)/UJ(non-detect)
01/17/95 12:08	HP5907F	Chloromethane Vinyl chloride Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	30.9 (±25.0%) 25.5 (±25.0%) 40.0 (±25.0%) 31.9 (±25.0%) 29.3 (±25.0%) 28.7 (±25.0%)	1BGS000101 1BGS000110 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGC000510 5BGS000501 5BGS000510	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level (µg/L) 5 x	Action Level (µg/L) 10 x	Samples Affected	Reported Concentration (µg/L)	Modified Final Concentration (µg/L)
01/17/95	VBLK011794K	Methylene chloride	2J		20	1BGS000101	4BJ	13U
						1BGS000110	4BJ	13U
						2BGS000201	4BJ	13U
						2BGS000210	4BJ	12U
						3BGS000301	5BJ	12U
						3BGS000310	5BJ	12U
						4BGS000401	4BJ	12U
						4BGS000411	4BJ	13U
						5BGS000510	5BJ	13U
						5BGS000501	4BJ	12U
						5BGC000510	4BJ	13U
01/18/95	VBLK011895E	Methylene chloride	350J		3500	1BGS000100	420BJ	1400U

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level (µg/L) 10 x	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
01/18/95	001D011095	Acetone	45	450	3BGS000301	7J	12U
01/17/95	BG2E011195	Methylene chloride	1BJ	10	1BG2000100	420BJ	1400U
					4BGS000401	4BJ	12U
					4BGS000411	4BJ	13U
01/17/95	BG2F011195	Methylene chloride	1BJ	10	1BG2000100	420BJ	1400U
					4BGS000401	4BJ	12U
					4BGS000411	4BJ	13U
01/13/95	BG2T011195	Methylene chloride	5BJ	50	1BG2000100	420BJ	1400U
					4BGS000401	4BJ	12U
					4BGS000411	4BJ	13U
01/17/95	BG5T011295	Methylene chloride	11B	110	2BGS000201	4BJ	13U
					2BGS000210	4BJ	12U
					2BGS000501	4BJ	12U
					5BGS000510	4BJ	13U
					5BGC000510	5BJ	13U
01/18/95	001D011095	Methylene chloride	1BJ	10	1BGS000101	4BJ	13U
					1BGS000110	4BJ	13U
					3BGS000301	5BJ	12U
					3BGS000310	5BJ	12U
01/16/95	001T011095	Methylene chloride	4BJ	40	1BGS000101	4BJ	13U
					1BGS000110	4BJ	13U
					3BGS000301	5BJ	12U
					3BGS000310	5BJ	12U

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1303

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1303	BG2T011195	Chloromethane Bromomethane Carbon disulfide	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	BG2E011195 BG2F011195 BG5T011295	Acetone	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	1BGS000100	Acetone	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	1BGS000101 1BGS000110 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGC000510 5BGS000501 5BGS000510	Chloromethane Vinyl chloride Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	BG2T011195	Methylene chloride	10U	Blank contamination
FD1303	001T011095	Methylene chloride	10U	Blank contamination
FD1303	1BGS000101 1BGS000110 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGS000510 5BGS000501 5BGC000510	Methylene chloride	13U 13U 13U 12U 12U 12U 12U 13U 13U 12U 13U	Blank contamination
FD1303	1BGS000100	Methylene chloride	1400U	Blank contamination
FD1303	3BGS000301	Acetone	12U	Blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00038, 95.00039, 95.00071, 95.00072, 95.00093, and 95.00094 (Level III Validation)
Case Nº:	FD1303

Sample Identification	Matrix
001D011095	Water
1BG2000100	Soil
1BG2000100RE	Soil
1BGS000101	Soil
1BGS000110	Soil
2BGS000201	Soil
2BGS000210	Soil
3BGS000301	Soil
3BGS000310	Soil
4BGS000401	Soil
4BGS000411	Soil
5BGS000501	Soil
5BGS000510	Soil
5BGC000510	Soil
BG2E011195	Water
BG2F011195	Water
3BGS000301MS	Soil
3BGS000301MSD	Soil

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INTRODUCTION

This data review report covers 15 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993); the following subsections correlate to the above guidelines. In the event that the SOW requirement is more stringent than that of the guidelines, the guideline QC limit will be replaced by the SOW QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this package.. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Contractual Analysis Holding Time/ QC Limit	Flag
1BG2000100RE	Soil	16 (14)	J(detect)/UJ(non-detect)

1BG2000100RE is the re-extracted sample of 1BG2000100. Both samples gave similar low acid surrogate recovery. In addition, 1BG2000100 RE was extracted out of technical holding time, had blank contamination and with more compounds that failed CCV %D. Therefore, data from 1BG2000100 should be reported.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and system monitoring compounds, percent relative standard deviations (%RSD) for RRF and relative response factors(RRF) met requirement except for the following:

Date	Instrument	Compound	%RSD (Guideline QC Limit)	Associated Samples	Flag
01/16/95	HP5970F	2,4-Dinitrophenol	44.7 (<30%)	All samples	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF was within ± 25.0 percent and all of the continuing calibration RRF values were greater than or equal to 0.05 per guideline (unless QC limits were replaced by more stringent SOW QC limits) except for the following:

Date	Instrument	Compound	%D (Guideline QC Limit)	Associated Samples	Flag
01/19/95	HP5970F	3-Nitroaniline 4-Nitroaniline Carbazole 3,3'-Dichlorobenzidine	-32.8 (<25%) -43.0 (<25%) -25.2 (<25%) -29.3 (<25%)	None	None

Date	Instrument	Compound	%D (Guideline QC Limit)	Associated Samples	Flag
01/20/95	HP5970F	Hexachlorocyclopentadiene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine	50.0 (<25%) 65.2 (<25%) 47.3 (<25%) -25.6 (<25%)	None	None None None None
01/25/95	HP5970F	4-Chloroaniline Hexachlorocyclopentadiene 4-Nitroaniline N-Nitrosodiphenylamine 3,3'-Dichlorobenzidine	73.6 (<25%) 26.2 (<25%) -25.3 (<25%) 64.0 (<25%) -54.3 (<25%)	1BG2000100 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGC000510 5BGS000501 5BGS000510 BG2E011195 BG2F011195	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
01/26/95	HP5970F	4-Chloroaniline Hexachlorocyclopentadiene 4-Nitroaniline N-Nitrosodiphenylamine 3,3'-Dichlorobenzidine	73.6 (<25%) 26.2 (<25%) -25.8 (<25%) 63.7 (<25%) -46.3 (<25%)	1BGS000101 1BGS000110	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
01/30/95	HP5970F	4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine 3,3'-Dichlorobenzidine	74.0 (<25%) 31.7 (<25%) -29.6 (<25%) -38.5 (<25%) 61.1 (<25%) -37.4 (<25%)	1BG2000100RE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies.

Contaminants found in the method blanks are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 (µg/kg)	Associated Samples	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
01/27/95	SBLK012795F	Di-n-Butylphthalate	440	4400	1BG2000100RE	330U	330U

2) Field Blank:

The field blanks were analyzed for this SDG.

No contaminant was found in the field blanks.

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SOW.

All system monitoring compound recoveries met QC requirements except for the following:

Sample	System Monitoring Compound	%R	QC Limit	Compounds Affected	Flag
1BG2000100	2-Fluorophenol 2,4,6-Tribromophenol	19 5	25-121% 19-122%	Acid fraction	J(detect)/R(non-detect)
1BG2000100RE	2-Fluorophenol 2,4,6-Tribromophenol	19 0	25-121% 19-122%	Acid fraction	J(detect)/R(non-detect)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW-846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data checks were carried out for this package.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data checks were carried out for this package.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data checks were carried out for this package.

XIV. SYSTEM PERFORMANCE

No raw data checks were carried out for this package.

XV. FIELD DUPLICATES

1 set of field duplicates were analyzed for this package. No analytes were detected.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - Case Nº FD1303

Case Nº	Sample ID	Parameter	Flag	Reason
FD1303	1BG2000100RE	All compounds	J(detect)/UJ(non-detect)	Technical holding time violation
FD1303	All samples	2,4-Dinitrophenol	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1303	001D011095	Hexachlorocyclopentadiene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol 3,3'-Dichlorobenzidine	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	1BG2000100 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGC000510 5BGS000501 5BGS000510 BG2E011195 BG2F011195	4-Chloroaniline Hexachlorocyclopentadiene 4-Nitroaniline N-Nitrosodiphenylamine 3,3'-Dichlorobenzidine	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	1BGS000101 1BGS000110	4-Chloroaniline Hexachlorocyclopentadiene 4-Nitroaniline N-Nitrosodiphenylamine 3,3'-Dichlorobenzidine	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	1BG2000100RE	4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine 3,3'-Dichlorobenzidine	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1303	1BG2000100 1BG2000100RE	All acid fraction	J(detect)/R(non-detect)	Surrogate recovery

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 3)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00038, 95.00039, 95.00071, 95.00072, 95.00093, and 95.00094 (Level III Validation)
Case Nº:	FD1303

Sample Identification	Matrix
001D011095	Water
1BG2000100	Soil
1BGS000101	Soil
1BGS000110	Soil
2BGS000201	Soil
2BGS000210	Soil
3BGS000301	Soil
3BGS000310	Soil
4BGS000401	Soil
4BGS000411	Soil
5BGC000510	Soil
5BGS000501	Soil
BG2E011195	Water
BG2F011195	Water
5BGS000510	Soil
4BGS000401DL	Soil
1BGS000101DL	Soil
2BGS000201DL	Soil
001D011095MS	Water
001D011095MSD	Water
3BGS000301MS	Soil
3BGS000301MSD	Soil

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INTRODUCTION

This data review report covers 17 soil samples and 5 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Instrument evaluation mixtures, standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INSTRUMENT PERFORMANCE EVALUATION

Not applicable.

IV. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SOW (Form 6D).

The %RSD for calibration factors of single component analytes were within QC limits (Form 6E).

V. CALIBRATION VERIFICATION

Calibration verifications of INDAM and INDBM were performed at required frequencies and sequence for both columns. The RT windows and RPD were within QC limit (Form 7E) except for the following:

Date/Time	Standard/ Column	Compound	Associated Compounds	%D (QC limit)	Flag
01/20/95 06:48	INDAM05/XTI5	4,4'-DDD Methoxychlor	1BGS000101 1BGS000110 3BGS000301 3BGS000310 1BG2000100 4BGS000401 4BGS000411 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	-18.44 (≤ ±15%) -16.50 (≤ ±15%)	None (confirmation only) None (confirmation only)
01/20/95 14:52	INDAM06/XTI5	Endrin 4,4'-DDD 4,4'-DDT Methoxychlor	1BG2000100 4BGS000401 4BGS000411 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	-17.53 (≤ ±15%) -20.85 (≤ ±15%) -16.70 (≤ ±15%) -21.69 (≤ ±15%)	None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only)
01/20/95 15:32	INDBM06/XTI5	beta-BHC delta-BHC Aldrin Heptachlor epoxide alpha-chlordane Endosulfan II Endrin aldehyde Endosulfan sulfate Endrin ketone	1BG2000100 4BGS000401 4BGS000411 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	-15.72 (≤ ±15%) -20.14 (≤ ±15%) -15.69 (≤ ±15%) -16.23 (≤ ±15%) -17.41 (≤ ±15%) -17.29 (≤ ±15%) -20.51 (≤ ±15%) -18.81 (≤ ±15%) -16.52 (≤ ±15%)	None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only)

Date/Time	Standard/ Column	Compound	Associated Compounds	%D (QC limit)	Flag
01/23/95 11:59	INDAM08/XTI5	gamma-BHC alpha-BHC 4,4'-DDD Dieldrin Endosulfan I Endrin Methoxychlor	4BGS000401DL 1BGS000101DL 2BGS000201DL	-18.23 (≤ ±15%) -17.47 (≤ ±15%) -24.40 (≤ ±15%) -16.99 (≤ ±15%) -17.55 (≤ ±15%) -20.62 (≤ ±15%) -27.04 (≤ ±15%)	None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only)
01/23/95 12:39	INDBM08/XTI5	Aldrin beta-BHC delta-BHC 4,4'-DDE Endosulfan II Endosulfan sulfate Endrin aldehyde Heptachlor epoxide g-Chlordane a-Chlordane Endrin ketone	4BGS000401DL 1BGS000101DL 2BGS000201DL	-19.12 (≤ ±15%) -19.42 (≤ ±15%) -23.32 (≤ ±15%) -20.26 (≤ ±15%) -20.23 (≤ ±15%) -22.63 (≤ ±15%) -21.02 (≤ ±15%) -17.26 (≤ ±15%) -16.98 (≤ ±15%) -16.91 (≤ ±15%) -22.18 (≤ ±15%)	None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only) None (confirmation only)
01/23/95 12:39	INDBM08/RTX35	Endosulfan sulfate	4BGS000401DL 1BGS000101DL 2BGS000201DL	-15.25 (≤ ±15%)	J(detect)/UJ(non-detect)

VI. BLANKS

Instrument blanks were performed at the required frequency. RT windows were all within QC limit.

Instrument blanks were free of contamination.

The method blanks were extracted and performed according to the SOW. The blanks were free of contamination.

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank.

VII. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SOW. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	Surrogate Spike	%R (Adv. Limit)	Compounds Affected	Flag
BG2E011195	RTX35	TCX2 DCB2	24 (31-130%) 45 (51-127%)	All compounds	J(detect)/UJ(non-detect)
001D011095MD	RTX35	DCB2	49 (51-127%)	None	None (only 1 out)

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Two sets of matrix spike (MS) and matrix spike duplicate (MSD) were analyzed at required frequencies. The %Rs on the MS/MSD of the investigative samples were within QC limits. Sample 001D011095 should have never been spiked since it is a field blank. No data qualification was resulted.

IX. LABORATORY CONTROL SAMPLES

No laboratory control samples were analyzed for this SDG.

X. FLORISIL CARTRIDGE CHECK

The %Rs for florisil cartridge check were within QC limit.

XI. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were properly identified. %D between 2 columns met QC requirement except for the following:

Sample	Compound	%D (QC Limit)	Flag
2BGS000201	4,4'-DDT	28.6 ($\leq$25%)	J

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed for this level III package. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements except for the following:

Sample	Compound	Modified Results	Reported Results
1BGS000101DL	Methoxychlor	210U	2100U

The case narrative stated that XTI5 was the primary column. On Form 1D, all results were reported from RTX35 instead of XTI5. Since CCV results of RTX35 met QC requirements for the detected compounds, no action was taken.

XIII. SYSTEM PERFORMANCE

The quality control parameters: Resolution Checks, PEM, Standards, Blanks, MS/MSD, and Surrogate Spike Recoveries for this SDG were all properly performed and within QC limits.

XIV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XV. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1303

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1303	4BGS000401DL 1BGS000101DL 2BGS000201DL	Endosulfan sulfate	J(detect)/UJ(non-detect)	CCV %D out
FD1303	1BGS000101DL	Methoxychlor	210U	Erroneous CRDL
FD1303	2BGS000201	4,4'-DDT	J	Compound Identification %D between 2 columns

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00038, 95.00039, 95.00071, 95.00072, 95.00093, & 95.00094 (Level III Validation)
SDG Nº:	FD1303

Sample Identification	Matrix
001D011095	Water
1BG2000100	Soil
1BGS000101	Soil
1BGS000110	Soil
2BGS000201	Soil
2BGS000210	Soil
3BGS000301	Soil
3BGS000310	Soil
4BGS000401	Soil
4BGS000411	Soil
5BGC000510	Soil
5BGS000501	Soil
5BGS000510	Soil
BG2E011195	Water
BG2F011195	Water
3BGS000310MS	Soil
3BGS000310MSD	Soil

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INTRODUCTION

This data review report covers 14 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
01/21/95 10:37	RF1x/RTX-35	MCPP	21.8	20%	All	J(detects)/UJ(non-detects)
	RF2x/RTX-35	MCPA	27.4	20%	All	J(detects)/UJ(non-detects)
	RF10x/RTX-5	MCPP	34.6	20%	All	None (confirmation only)
	RF20x/RTX-5	MCPA	34.7	20%	All	None (confirmation only)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
01/21/95 19:56	8150H3/RTX-5	Dalapon	-21.3 (±15%)	BG2E011195	None (confirmation only)
		MCPP	-19.4 (±15%)	BG2F011195	None (confirmation only)
		MCPA	-16.5 (±15%)		None (confirmation only)
		2,4-DB	-18.5 (±15%)		None (confirmation only)
01/27/95 00:59	8150L3/RTX5	MCPP	-19.6 (±15%)	1BGS000101	None (confirmation only)
		Silvex	16.2 (±15%)	1BGS000110	None (confirmation only)
		2,4,5-T	17.5 (±15%)	3BGS000301	None (confirmation only)
		2,4-DB	-20.6 (±15%)	3BGS000310	None (confirmation only)
01/27/95 09:01	8150LS/RTX-35	MCPP	17.1 (±15%)	1BGS000101	J(detects)/UJ(non-detects)
		2,4-DB	17.7 (±15%)	1BGS000110	J(detects)/UJ(non-detects)
				3BGS000301	
				3BGS000310	
				1BG2000100	
				4BGS000401	
				4BGS000411	
				2BGS000201	
				2BGS000210	
				5BGS000501	
				5BGS000510	
				5BGC000510	

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
01/27/95 09:01	8150LS/RTX-5	MCPP Silvex	-20.0 (±15%) 15.3 (±15%)	1BGS000101 1BGS000110 3BGS000301 3BGS000310 1BG2000110 4BGS000401 4BGS000411 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	None (confirmation only) None (confirmation only)
01/27/95 17:20	8150L3/RTX-35	MCPA MCPP	20.6 (±15%) 15.3 (±15%)	1BG2000110 4BGS000401 4BGS000411 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)
01/27/95 17:20	8150L3/RTX-5	MCPP MCPA	-23.1 (±15%) -16.0 (±15%)	1BG2000110 4BGS000401 4BGS000411 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	None (confirmation only) None (confirmation only)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	Matrix	%R (Adv. Limit %)	Compounds Affected	Flag
2BGS000210	RTX-35	Soil	126 (40-115)	All	J(detects)/None(non-detects)
2BGS000201 5BGC000510	RTX-5	Soil	176 (40-115) 135 (40-115)	All All	None (confirmation only) None (confirmation only)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
3BGS000310	RTX-5	Dicamba			36 (<20%)	None (conf. only)
		MCPP			43 (<20%)	None (conf. only)
		2,4-D			57 (<20%)	None (conf. only)
		2,4-DB	4 (10-150%)		173 (<20%)	None (conf. only)
		Dinoseb	0 (10-150%)	0 (10-150%)		None (conf. only)
3BGS000310	RTX-35	Dalapon	0 (10-150%)	0 (10-150%)		J(detects)/R(non-detects)
		Dicamba			26 (<20%)	J(detects)/UJ(non-detects)
		MCPP			110 (<20%)	J(detects)/UJ(non-detects)
		MCPA			33 (<20%)	J(detects)/UJ(non-detects)
		2,4-D			48 (<20%)	J(detects)/UJ(non-detects)
		Silvex			55 (<20%)	J(detects)/UJ(non-detects)
		Dinoseb	0 (10-150%)	0 (10-150%)		J(detects)/R(non-detects)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
LCS0116A	RTX-5	Dalapon	184.96 (10-150%)		BG2E011195 BG2F011195	None (confirmation only)
LCS01205	RTX-5	Dinoseb Dalapon	5.08 (10-150%) 9.16 (10-150%)	17.78 (17.83-17.93)	1BG2000100 1BGS000101 1BGS000110 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGC000510 5BGS000501 5BGS000510	None (confirmation only)
LCS01205	RTX-35	Dinoseb		25.51 (25.36-24.46)	1BG2000100 1BGS000101 1BGS000110 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGC000510 5BGS000501 5BGS000510	J(detects)/UJ(non-detects)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike samples were analyzed and met QC requirements except for the following:

EST	Column	EST Spike	%R	QC Limit	Associated Samples	Flag
ESTSPK0116	RTX-5	MCPP MCPA	253.06 222.94	10-150	BG2E011195 BG2F011195	None (conf. only) None (conf. only)

X. COMPOUND IDENTIFICATION

The %D between 2 columns were <25% except for the following:

Sample	Compound	%D	QC Limit	Action
3BG5000310	MCPP	498.1	< 25%	J
5BGC000510	DCAA 2,4 -DB	44.9 172.5	< 25%	J
5BGS000501	MCAA 2,4 - DB	48.2 233.9	< 25%	J

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (µg/kg)		RPD (QC Limit)	Flag
	5BGS000510	5BGC000510		
2,4-DB	9.5U	48	NA (50%)	J(detects)/UJ(non-detects)

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1303

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1303	All	MCPP MCPA	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Initial calibration %RSD
FD1303	1BGS000101 1BGS000110 3BGS000301 3BGS000310 1BGS000110 4BGS000401 4BGS000411 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	MCPP 2,4-DB	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1303	1BGS000110 4BGS000411 4BGS000401 2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	MCPA MCPP	J(detects)/UJ(non-detects)	Continuing calibration %D
FD1303	2BGS000210	All	J(detects)/None(non-detects)	Surrogate %R
FD1303	3BGS000310	Dalapon Dicamba MCPP MCPA 2,4-D Silvex Dinoseb	J(detects)/R(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/R(non-detects)	MS/MSD %R & RPD
FD1303	1BG2000100 1BGS000101 1BGS000110 2BGS000201 2BGS000210 3BGS000301 3BGS000310 4BGS000401 4BGS000411 5BGC000510 5BGS000501 5BGS000510	Dinoseb	J(detects)/UJ(non-detects)	LCS %R
FD1303	5BGS000510 5BGC000510	2,4 - DB	J(detects)/UJ(non-detects)	Field duplicate RPD
FD1303	3BGS000310	MCPP	J	%D between 2 columns
FD1303	5BGC000510	DCAA 2,4 - DB	J	%D between 2 columns
FD1303	5BGS000501	MCPA 2,4 - DB	J	%D between 2 columns

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	93.00038 95.00071 95.00093 (Level III Validation) 95.00039 95.00072 95.00094
SDG Nº:	FD1303

Sample Identification	Matrix
001D011095	Water
1BG2000100	Soil
1BGS000101	Soil
1BGS000110	Soil
2BGS000201	Soil
2BGS000210	Soil
3BGS000301	Soil
3BGS000310	Soil
4BGS000401	Soil
4BGS000411	Soil
5BGC000510	Soil
5BGS000501	Soil
5BGS000510	Soil
BG2E011195	Water
BG2F011195	Water
3BGS000310MS	Soil
3BGS000310MSD	Soil

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INTRODUCTION

This data review report covers 14 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of single component analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
01/24/95	RF250/Rtx5 RF500 RF1000 RF2000 RF4000	Fensulfothion	21.8	± 20%	All	J(detect)/UJ(non detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit %)	RT (QC Limit)	Associated Samples	Flag
01/24/95	Prime 4000/Rtx5	Demeton,O Naled Guthion	 19.99(≤15) 19.98(≤15)	16.94 (16.71-16.91)	BG2E011195 BG2F011195 IBG2000100 4BGS000401 4BGS000411	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
01/25/95	OCHK1000-01/Rtx5	Demeton,O Ethoprop Naled Phorate Demeton,S Diazinon Disulfoton Methyl Parathion Ronnel Fenthion Chlorpyrifos Trichloronate Tokuthion Fensulfothion Strophos Sulprofos Guthion Coumaphos	23.06(≤15) 17.37(≤15) 55.07(≤15) 16.95(≤15) 16.35(≤15) 22.63(≤15) 16.65(≤15) 20.15(≤15) 19.20(≤15) 21.14(≤15) 21.98(≤15) 16.28(≤15) 16.66(≤15) 21.88(≤15) 24.15(≤15) 18.10(≤15) 31.51(≤15) 24.54(≤15)		1BGS000101 1BGS000110 3BGS000301 3BGS000310 1BG2000100 4BGS000401 4BGS000411	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

Date/ Time	Standard/ Column	Compound	%D (QC Limit %)	RT (QC Limit)	Associated Samples	Flag
01/26/95	OCHK1000-02/Rtx5	Dichlorvos	47.00(≤15)		2BGS000201	J(detect)/UJ(non-detect)
		Mevinphos alpha	41.21(≤15)		2BGS000210	J(detect)/UJ(non-detect)
		Demeton, O	62.13(≤15)		5BGS000501	J(detect)/UJ(non-detect)
		Ethoprop	46.42(≤15)		5BGS000510	J(detect)/UJ(non-detect)
		Naled	30.78(≤15)		5BGC000510	J(detect)/UJ(non-detect)
		Phorate	46.01(≤15)		1BGS000101	J(detect)/UJ(non-detect)
		Demeton, S	49.74(≤15)		1BGS000110	J(detect)/UJ(non-detect)
		Diazinon	51.39(≤15)		3BGS000301	J(detect)/UJ(non-detect)
		Disulfoton	42.68(≤15)		3BGS000310	J(detect)/UJ(non-detect)
		Methyl Parathion	50.81(≤15)			J(detect)/UJ(non-detect)
		Ronnel	48.32(≤15)			J(detect)/UJ(non-detect)
		Fenthion	51.55(≤15)			J(detect)/UJ(non-detect)
		Chlorpyrifos	52.91(≤15)			J(detect)/UJ(non-detect)
		Trichloronate	41.77(≤15)			J(detect)/UJ(non-detect)
		Merphos	19.95(≤15)			J(detect)/UJ(non-detect)
		Tokuthion	43.54(≤15)			J(detect)/UJ(non-detect)
		Fensulfothion	41.87(≤15)			J(detect)/UJ(non-detect)
		Strophos	51.51(≤15)			J(detect)/UJ(non-detect)
		Sulprofos	44.04(≤15)			J(detect)/UJ(non-detect)
		Guthion	59.07(≤15)			J(detect)/UJ(non-detect)
		Coumaphos	57.90(≤15)			J(detect)/UJ(non-detect)
01/26/95	OCHK1000-03/Rtx5	Dichlorvos	46.40(≤15)		2BGS000201	J(detect)/UJ(non-detect)
		Mevinphos, alpha	19.61(≤15)		2BGS000210	J(detect)/UJ(non-detect)
		Demeton, O	59.46(≤15)		5BGS000501	J(detect)/UJ(non-detect)
		Ethoprop	48.17(≤15)		5BGS000510	J(detect)/UJ(non-detect)
		Naled	20.88(≤15)		5BGC000510	J(detect)/UJ(non-detect)
		Phorate	46.84(≤15)			J(detect)/UJ(non-detect)
		Demeton, S	44.48(≤15)			J(detect)/UJ(non-detect)
		Diazinon	62.03(≤15)			J(detect)/UJ(non-detect)
		Disulfoton	44.62(≤15)			J(detect)/UJ(non-detect)
		Methyl Parathion	52.22(≤15)			J(detect)/UJ(non-detect)
		Ronnel	50.41(≤15)			J(detect)/UJ(non-detect)
		Fenthion	54.77(≤15)			J(detect)/UJ(non-detect)
		Chlorpyrifos	62.67(≤15)			J(detect)/UJ(non-detect)
		Trichloronate	45.36(≤15)			J(detect)/UJ(non-detect)
		Tokuthion	45.14(≤15)			J(detect)/UJ(non-detect)
		Strophos	46.52(≤15)			J(detect)/UJ(non-detect)
		Sulprofos	45.89(≤15)			J(detect)/UJ(non-detect)
		Guthion	27.66(≤15)			J(detect)/UJ(non-detect)
		Coumaphos	47.40(≤15)			J(detect)/UJ(non-detect)

On Form 7E, the concentration recovery window for Prime 4000 calibration check should be (3400-4600) instead of (850-1150) as indicated.

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination except for the following:

Date	Blank	Compound	Conc. (ppb)	QC limit Conc.	Associated Samples	Flag
01/24/95	NIBLK01	Fensulfothion	4.3	(≤1.25)	None	None

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	Surrogate Spike Compound	%R (Adv. Limit %)	Compounds Affected	Flag
1BG2000100	RTX5	4-Chloro-3-Nitrobenzotrifluoride	128 (50-120)	All	J(detect)/None(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
3BGS000310	Rtx5	Dichlorvos	151 (50-150)			J(detect)/None(non-detect)
		Demeton, O	279 (50-150)	216 (50-150)		J(detect)/None(non-detect)
		Demeton, S	23 (50-150)	23 (50-150)		J(detect)/UJ(non-detect)
		Merphos	0 (50-150)	0 (50-150)		J(detect)/R(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	Compounds Affected	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
OPLCS0013A	Rtx5	Demeton, O	309.4 (50-150)		BG2E011195	J(detect)/None(non-detect)
		Naled	43.9 (50-150)		BG2F011195	J(detect)/UJ(non-detect)
		Demeton, S	21.9 (50-150)			J(detect)/UJ(non-detect)
OPLCS0117S	Rtx5	Demeton, O	393.0 (50-150)		1BGS000101	J(detect)/None(non-detect)
		Demeton, S	24.1 (50-150)		1BGS000110	J(detect)/UJ(non-detect)
		Merphos	0.0 (50-150)		3BGS000301	J(detect)/R(non-detect)
					3BGS000310	
OPLCS0118S	Rtx5	Demeton, O	375.9 (50-150)		1BG2000100	J(detect)/None(non-detect)
		Naled	151.6 (50-150)		4BGS000401	J(detect)/None(non-detect)
		Demeton, S	23.7 (50-150)		4BGS000411	J(detect)/UJ(non-detect)
		Merphos	0.0 (50-150)			J(detect)/R(non-detect)
OPLCS0119S	Rtx5	Demeton, O	453.3 (50-150)		2BGS000201	J(detect)/None(non-detect)
		Demeton, S	26.6 (50-150)		2BGS000210	J(detect)/UJ(non-detect)
		Merphos	0.0 (50-150)		5BGS000501	J(detect)/R(non-detect)
					5BGS000510	
					5BGC000510	

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were undetected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against.The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XI. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1303

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1303	All	Fensulfothion	J(detect)/UJ(non-detect)	Initial Calibration %RSD out
FD1302	BG2E011195	Demeton, O	J(detect)/UJ(non-detect)	Continuing calibration %D
	BG2F011195	Naled	J(detect)/UJ(non-detect)	
	1BG2000100	Guthion	J(detect)/UJ(non-detect)	
	4BGS000401			
	4BGS000411			
FD1303	1BGS000101	Demeton,O	J(detect)/UJ(non-detect)	Continuing calibration %D
	1BGS000110	Ethoprop	J(detect)/UJ(non-detect)	
	3BGS000301	Naled	J(detect)/UJ(non-detect)	
	3BGS000310	Phorate	J(detect)/UJ(non-detect)	
	1BG2000100	Demeton, S	J(detect)/UJ(non-detect)	
	4BGS000401	Diazinon	J(detect)/UJ(non-detect)	
	4BGS000411	Disulfoton	J(detect)/UJ(non-detect)	
		Methyl Parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chloropyrifos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Stirophos	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumaphos	J(detect)/UJ(non-detect)	
FD1303	2BG0000201	Dichlorvos	J(detect)/UJ(non-detect)	Continuing calibration %D
	2BG0000210	Mevinphos, alpha	J(detect)/UJ(non-detect)	
	5BGS000501	Demeton, O	J(detect)/UJ(non-detect)	
	5BGS000510	Ethoprop	J(detect)/UJ(non-detect)	
	5BGC000510	Naled	J(detect)/UJ(non-detect)	
	1BGS000101	Phorate	J(detect)/UJ(non-detect)	
	1BGS000110	Demeton, S	J(detect)/UJ(non-detect)	
	3BGS000301	Diazinon	J(detect)/UJ(non-detect)	
	3BGS000310	Disulfoton	J(detect)/UJ(non-detect)	
		Methyl Parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chloropyrifos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Stirophos	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumaphos	J(detect)/UJ(non-detect)	
FD1303	2BGS000201	Dichlorvos	J(detect)/UJ(non-detect)	Continuing calibration %D
	2BGS000210	Mevinphos, alpha	J(detect)/UJ(non-detect)	
	5BGS000501	Demeton, O	J(detect)/UJ(non-detect)	
	5BGS000510	Ethoprop	J(detect)/UJ(non-detect)	
	5BGC000510	Naled	J(detect)/UJ(non-detect)	
		Phorate	J(detect)/UJ(non-detect)	
		Demeton, S	J(detect)/UJ(non-detect)	
		Diazinon	J(detect)/UJ(non-detect)	
		Disulfoton	J(detect)/UJ(non-detect)	
		Methyl Parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chloropyrifos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Stirophos	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumaphos	J(detect)/UJ(non-detect)	
FD1303	1BG2000100	All compounds	J(detect)/None(non-detect)	Surrogate spike %R

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1303	3BGS000310	Dichlorvos Demeton, O Demeton, S Merphos	J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Matrix spike/matrix spike duplicate %R
FD1303	1BGS000101 1BGS000110 3BGS000301 3BGS000310	Demeton, O Demeton, S Merphos	J(detect)/None(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R
FD1303	1BG2000100 4BGS000401 4BGS000411	Demeton, O Naled Demeton, S Merphos	J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R
FD1303	2BGS000201 2BGS000210 5BGS000501 5BGS000510 5BGC000510	Demeton, O Demeton, S Merphos	J(detect)/None(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R
FD1303	BG2E011195 BG2F011195	Demeton, O Naled Demeton, S	J(detect)/None(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00038, 95.00039, 95.00071, 95.00072, 95.00093, and 95.00094 (Level III Validation)
SDG Nº:	FD1303

Sample Identification	Matrix
001D011095	Water
1BGS000101	Soil
1BGS000110	Soil
3BGS000301	Soil
3BGS000310	Soil
1BG2000100	Soil
4BGS000401	Soil
4BGS000411	Soil
BG2E011195	Water
BG2F011195	Water
2BGS000201	Soil
2BGS000210	Soil
5BGS000501	Soil
5BGS000510	Soil
5BGC000510	Soil

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INTRODUCTION

This data review report covers 12 soil samples and 3 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Not applicable since all samples were run the same day as initial calibration.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blanks.

The field blank analyses were performed at required frequencies. No contaminant was found in the field blanks.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - Case № FD1303

No data were qualified for this package.

E/A&H VALIDATION ADDENDUM

Validation Subcontractor:	CKY Environmental Services, Inc.
Site Name:	NAS Memphis, Millington, Tennessee
CTO and Subtask No.:	0094-04730
Laboratory:	NET Atlantic, Inc.
Sample Delivery Group:	FD1303
Matrix:	Water
Samples:	BG2T011195, BG2E011195, BG2F011195, BG5T011295, 001D011095
E/A&H Project Chemist:	Charlene M. Thompson CMT

The above samples were identified as field blanks, trip blanks, rinsate blanks, and DI system blanks. Field-derived blanks were used with method blanks to assess possible cross-contamination of field investigative samples. No action was taken if compounds were detected in the method blanks associated with the field-derived blanks or if QC parameters were not met in the field-derived blanks. The field blanks were used to assess cross-contamination in investigative samples only.

The validator qualified compounds in these blanks based on various QA/QC parameters in several different fractions. CKY was told that the only purpose for the field QC was to assess cross-contamination in investigative samples. Therefore, E/A&H has removed the estimated qualifiers from the field QC.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 HERB																	
	SAMPLE ID ------->	1BG-S-0001-00			1BG-S-0001-01			1BG-S-0001-10			2BG-S-0002-01			2BG-S-0002-10			3BG-S-0003-01		
	ORIGINAL ID ----->	1BG2000100			1BGS000101			1BGS000110			2BGS000201			2BGS000210			3BGS000301		
	LAB SAMPLE ID --->	115300			115198			115199			115341			115342			115200		
	SAMPLE DATE ----->	01/11/95			01/09/95			01/09/95			01/12/95			01/12/95			01/10/95		
	DATE EXTRACTED -->	01/18/95			01/17/95			01/17/95			01/19/95			01/19/95			01/17/95		
	DATE ANALYZED --->	01/25/95			01/25/95			01/25/95			01/26/95			01/26/95			01/25/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A
CAS #	Parameter																		
94-82-6	2,4-DB	9.5	UJ		9.5	UJ		9.5	UJ		9.5	UJ		9.5	UJ		9.5	UJ	
88-85-7	Dinoseb	4.7	UJ		4.7	UJ		4.7	UJ		4.7	UJ		4.7	UJ		4.7	UJ	
93-76-5	2,4,5-T	0.95	U		0.95	U		0.95	U		0.95	U		0.95	UJ		0.95	U	
93-72-1	2,4,5-TP (Silvex)	0.95	U		0.95	U		0.95	U		0.95	U		0.95	UJ		0.95	U	
75-99-0	Dalapon	23.	U		23.	U		23.	U		23.	U		23.	UJ		23.	U	
1918-00-9	Dicamba	0.94	U		0.94	U		0.94	U		0.94	U		0.94	UJ		0.94	U	
120-36-5	Dichlorprop	9.4	U		9.4	U		9.4	U		9.4	U		9.4	UJ		9.4	U	
94-74-6	MCPA	940.	UJ		940.	UJ		940.	UJ		940.	UJ		940.	UJ		940.	UJ	
93-65-2	MCPP	940.	UJ		940.	UJ		940.	UJ		4900.	UJ		940.	UJ		940.	UJ	
94-75-7	2,4-D	9.4	U		9.4	U		9.4	U		9.4	U		9.4	UJ		9.4	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1303 HERB													
	SAMPLE ID ------->	3BG-S-0003-10		4BG-S-0004-01		4BG-S-0004-11		5BG-S-0005-01		5BG-S-0005-10		5BG-C-0005-10	
	ORIGINAL ID ----->	3BGS000310		4BGS000401		4BGS000411		5BGS000501		5BGS000510		5BGC000510	
	LAB SAMPLE ID --->	115201		115301		115302		115343		115344		115345	
	SAMPLE DATE ----->	01/10/95		01/11/95		01/11/95		01/12/95		01/12/95		01/12/95	
	DATE EXTRACTED -->	01/17/95		01/18/95		01/18/95		01/19/95		01/19/95		01/19/95	
	DATE ANALYZED --->	01/25/95		01/25/95		01/25/95		01/26/95		01/26/95		01/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	UJ	9.5	UJ	9.5	UJ	85.	J	9.5	UJ	48.	J
88-85-7	Dinoseb	4.7	UR	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ
93-76-5	2,4,5-T	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U
93-72-1	2,4,5-TP (Silvex)	0.95	UJ	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U
75-99-0	Dalapon	23.	UR	23.	U	23.	U	23.	U	23.	U	23.	U
1918-00-9	Dicamba	0.94	UJ	0.94	U	0.94	U	0.94	U	0.94	U	0.94	U
120-36-5	Dichlorprop	9.4	U	9.4	U	9.4	U	0.94	U	9.4	U	9.4	U
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	1800.	J	940.	UJ	940.	UJ
93-65-2	MCPP	1600.	J	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ
94-75-7	2,4-D	9.4	UJ	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 METAL																	
	SAMPLE ID ------->	1BG-S-0001-00		1BG-S-0001-01		1BG-S-0001-10		2BG-S-0002-01		2BG-S-0002-10		3BG-S-0003-01	
	ORIGINAL ID ----->	1BGS000100		1BGS000101		1BGS000110		2BGS000201		2BGS000210		3BGS000301	
	LAB SAMPLE ID --->	2-115306S		9-115204S		9-115205S		4-115347S		4-115348S		9-115206S	
	SAMPLE DATE ----->	01/11/95		01/09/95		01/09/95		01/12/95		01/12/95		01/10/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	8.7	UR	13.4	UR	10.4	UR	10.3	UR	10.	UR	10.8	UR
AS	Arsenic	3.4	J	7.1	J	20.2	J	5.4	J	1.8	J	6.3	J
BA	Barium	96.6	J	70.8	J	93.8	J	93.3	J	193.	J	101.	J
BE	Beryllium	0.65	J	0.4	J	0.39	J	0.39	J	0.58	J	0.52	J
CD	Cadmium	2.	UJ	1.9	UJ	3.4	J	1.7	UJ	2.4	UJ	3.	UJ
CR	Chromium	46.3		9.5		11.7		12.2		17.		14.8	
CO	Cobalt	6.4	J	7.8	J	7.3	J	5.8	J	5.	J	8.3	J
CU	Copper	46.		9.9	U	14.8		12.		12.6		14.5	
PB	Lead	13.6	J	14.5	J	8.7	J	18.	J	7.9	J	11.6	J
HG	Mercury	0.1	U	2.1		0.13	U	0.21		0.12	U	0.12	U
NI	Nickel	25.2	J	10.7	UJ	19.4	UJ	12.8	UJ	14.2	UJ	15.8	UJ
SE	Selenium	0.4	UJ	0.52	UJ	0.52	UJ	0.51	UJ	0.5	UJ	0.49	UJ
AG	Silver	1.2	UJ	1.2	U	1.7	U	1.6	U	1.8	UJ	1.5	U
TL	Thallium	2.	UR	0.52	UR	0.52	UR	0.51	UR	0.5	UR	0.49	UR
V	Vanadium	30.1		17.8		18.5		20.8		18.6		29.3	
ZN	Zinc	78.5	J	35.2	J	47.7	J	39.8	J	60.8	J	49.1	J
SN	Tin	163.	J	25.7	UJ	32.3	UJ	21.3	UJ	22.5	UJ	31.9	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1303 METAL																			
	SAMPLE ID ------->	3BG-S-0003-10			4BG-S-0004-01			4BG-S-0004-11			5BG-S-0005-01			5BG-S-0005-10			5BG-C-0005-10		
	ORIGINAL ID ----->	3BGS000310			4BGS000401			4BGS000411			5BGS000501			5BGS000510			5BGC000510		
	LAB SAMPLE ID --->	9-115207S			2-115307S			2-115308S			4-115349S			4-115350S			4-115351S		
	SAMPLE DATE ----->	01/10/95			01/11/95			01/11/95			01/12/95			01/12/95			01/12/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A
CAS #	Parameter																		
SB	Antimony	9.8	UR		9.9	UR		10.3	UR		9.8	UR		10.2	UR		10.3	UR	
AS	Arsenic	8.7	J		9.1	J		11.1	J		4.9	J		9.	J		10.4	J	
BA	Barium	132.	J		131.	J		130.	J		81.7	J		114.	J		205.	J	
BE	Beryllium	0.51	J		0.69	J		0.61	J		0.4	J		0.42	J		0.55	J	
CD	Cadmium	2.9	UJ		3.	UJ		2.3	UJ		2.3	UJ		1.8	UJ		2.2	UJ	
CR	Chromium	12.7			18.			16.6			11.6			12.7			15.1		
CO	Cobalt	8.9	J		9.1	J		7.8	J		6.6	J		6.9	J		10.1	J	
CU	Copper	18.8			17.8			19.9			9.7			15.2			20.3		
PB	Lead	12.2	J		18.	J		11.7	J		9.7	J		9.	J		14.2	J	
HG	Mercury	0.12	U		0.12	U		0.19			0.12	U		0.13	U		0.13	U	
NI	Nickel	21.5	UJ		20.8	UJ		18.1	UJ		10.1	UJ		14.1	UJ		29.9	J	
SE	Selenium	0.49	UJ		0.5	UJ		0.51	UJ		0.49	UJ		0.51	UJ		0.52	UJ	
AG	Silver	1.9	U		1.6	U		1.7	U		1.5	U		2.5	U		2.	U	
TL	Thallium	0.49	UR		0.5	UR		0.51	UR		0.49	UR		0.51	UR		0.52	UR	
V	Vanadium	22.5			33.1			27.3			22.9			22.3			29.8		
ZN	Zinc	54.8	J		62.7	J		59.7	J		34.	J		49.5	J		63.1	J	
SN	Tin	22.6	UJ		23.9	UJ		29.1	UJ		22.7	UJ		22.8	UJ		38.7	UJ	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 METAL-CN						
SAMPLE ID ------->	1BG-S-0001-00	1BG-S-0001-01	1BG-S-0001-10	2BG-S-0002-01	2BG-S-0002-10	3BG-S-0003-01
ORIGINAL ID ----->	1BG2000100	1BGS000101	1BGS000110	2BGS000201	2BGS000210	3BGS000301
LAB SAMPLE ID --->	115306	115204	115205	115347	115348	115206
SAMPLE DATE ----->	01/11/95	01/09/95	01/09/95	01/12/95	01/12/95	01/10/95
DATE EXTRACTED -->	01/16/95	01/16/95	01/16/95	01/16/95	01/16/95	01/16/95
DATE ANALYZED --->	01/17/95	01/17/95	01/17/95	01/17/95	01/17/95	01/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.5 U	0.57 U	0.5 U	0.5 U	0.5 U	0.51 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 METAL-CN						
SAMPLE ID ------->	3BG-S-0003-10	4BG-S-0004-01	4BG-S-0004-11	5BG-S-0005-01	5BG-S-0005-10	5BG-C-0005-10
ORIGINAL ID ----->	3BGS000310	4BGS000401	4BGS000411	5BGS000501	5BGS000510	5BGC000510
LAB SAMPLE ID --->	115207	115307	115308	115349	115350	115351
SAMPLE DATE ----->	01/10/95	01/11/95	01/11/95	01/12/95	01/12/95	01/12/95
DATE EXTRACTED -->	01/16/95	01/16/95	01/16/95	01/16/95	01/16/95	01/16/95
DATE ANALYZED --->	01/17/95	01/17/95	01/17/95	01/17/95	01/17/95	01/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.55 U	0.5 U	0.58 U	0.5 U	0.5 U	0.54 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 OP PEST																	
	SAMPLE ID ------->	1BG-S-0001-00			1BG-S-0001-01			1BG-S-0001-10			2BG-S-0002-01			2BG-S-0002-10			3BG-S-0003-01		
	ORIGINAL ID ----->	1BG2000100			1BGS000101			1BGS000110			2BGS000201			2BGS000210			3BGS000301		
	LAB SAMPLE ID --->	115300			115198			115199			115341			115342			115200		
	SAMPLE DATE ----->	01/11/95			01/09/95			01/09/95			01/12/95			01/12/95			01/10/95		
	DATE EXTRACTED -->	01/18/95			01/17/95			01/17/95			01/19/95			01/19/95			01/17/95		
	DATE ANALYZED --->	01/25/95			01/25/95			01/25/95			01/26/95			01/26/95			01/25/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A
CAS #	Parameter																		
86-50-0	Guthion	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
35400-43-2	Sulprofos	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
2921-88-2	Chloropyrifos	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
56-72-4	Coumaphos	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
8065-48-3	Demeton,O	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
333-41-5	Diazinon	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
62-73-7	Dichlorvos	83.	U		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
298-04-4	Disulfoton	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
13194-48-4	Ethoprop	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
115-90-2	Fensulfothion	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
55-38-9	Fenthion	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
150-50-5	Merphos	83.	UR		100.	UR		100.	UR		110.	UR		100.	UR		110.	UR	
7786-34-7	Mevinphos, Alpha	83.	U		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
300-76-5	Naled	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
298-00-0	Methyl parathion	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
298-02-2	Phorate	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
299-84-3	Ronnel	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
22248-79-9	Stirophos (Tetrachlorovinphos)	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
34643-46-4	Tokuthion	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
327-98-0	Trichloronate	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	
126-75-0	Demeton,S	83.	UJ		100.	UJ		100.	UJ		110.	UJ		100.	UJ		110.	UJ	

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1303 OP PEST													
	SAMPLE ID ------->	3BG-S-0003-10		4BG-S-0004-01		4BG-S-0004-11		5BG-S-0005-01		5BG-S-0005-10		5BG-C-0005-10	
	ORIGINAL ID ----->	3BGS000310		4BGS000401		4BGS000411		5BGS000501		5BGS000510		5BGC000510	
	LAB SAMPLE ID --->	115201		115301		115302		115343		115344		115345	
	SAMPLE DATE ----->	01/10/95		01/11/95		01/11/95		01/12/95		01/12/95		01/12/95	
	DATE EXTRACTED -->	01/17/95		01/18/95		01/18/95		01/19/95		01/19/95		01/19/95	
	DATE ANALYZED --->	01/25/95		01/25/95		01/25/95		01/26/95		01/26/95		01/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
35400-43-2	Sulprofos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
2921-88-2	Chloropyrifos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
56-72-4	Coumaphos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
8065-48-3	Demeton,O	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
333-41-5	Diazinon	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
62-73-7	Dichlorvos	110.	UJ	100.	U	110.	U	100.	UJ	110.	UJ	110.	UJ
298-04-4	Disulfoton	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
13194-48-4	Ethoprop	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
115-90-2	Fensulfothion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
55-38-9	Fenthion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
150-50-5	Merphos	110.	UR	100.	UR	110.	UR	100.	UR	110.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	110.	UJ	100.	U	110.	U	100.	UJ	110.	UJ	110.	UJ
300-76-5	Naled	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
298-00-0	Methyl parathion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
298-02-2	Phorate	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
299-84-3	Ronnel	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
34643-46-4	Tokuthion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
327-98-0	Trichloronate	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ
126-75-0	Demeton,S	110.	UJ	100.	UJ	110.	UJ	100.	UJ	110.	UJ	110.	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 PEST																	
	SAMPLE ID ------->	1BG-S-0001-00			1BG-S-0001-01			1BG-S-0001-10			2BG-S-0002-01			2BG-S-0002-10			3BG-S-0003-01		
	ORIGINAL ID ----->	1BG2000100			1BGS000101			1BGS000110			2BGS000201			2BGS000210			3BGS000301		
	LAB SAMPLE ID --->	115306			115204			115205			115347			115348			115206		
	SAMPLE DATE ----->	01/11/95			01/09/95			01/09/95			01/12/95			01/12/95			01/10/95		
	DATE EXTRACTED -->	01/18/95			01/18/95			01/18/95			01/18/95			01/18/95			01/18/95		
	DATE ANALYZED --->	01/20/95			01/20/95			01/20/95			01/20/95			01/20/95			01/20/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A
CAS #	Parameter																		
319-84-6	alpha-BHC	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
319-85-7	beta-BHC	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
319-86-8	delta-BHC	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
58-89-9	gamma-BHC (Lindane)	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
76-44-8	Heptachlor	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
309-00-2	Aldrin	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
1024-57-3	Heptachlor epoxide	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
959-98-8	Endosulfan I	1.6	U		2.1	U		2.2	U		2.2	U		2.	U		2.	U	
60-57-1	Dieldrin	3.2	U		215.	D		4.3	U		82.	D		4.	U		4.	U	
72-55-9	4,4'-DDE	3.2	U		4.3	U		4.3	U		4.2	U		4.	U		4.	U	
72-20-8	Endrin	3.2	U		4.3	U		4.3	U		4.2	U		4.	U		4.	U	
33213-65-9	Endosulfan II	3.2	U		4.3	U		4.3	U		4.2	U		4.	U		4.	U	
72-54-8	4,4'-DDD	3.2	U		4.3	U		4.3	U		4.2	U		4.	U		4.	U	
1031-07-8	Endosulfan sulfate	3.2	U		4.3	U		4.3	U		4.2	U		4.	U		4.	U	
50-29-3	4,4'-DDT	3.2	U		4.3	U		4.3	U		14.	J		4.	U		4.	U	
72-43-5	Methoxychlor	16.	U		21.	U		22.	U		22.	U		20.	U		20.	U	
53494-70-5	Endrin ketone	3.2	U		4.3	U		4.3	U		4.2	U		4.	U		4.	U	
7421-36-3	Endrin aldehyde	3.2	U		4.3	U		4.3	U		4.2	U		4.	U		4.	U	
5103-71-9	alpha-Chlordane	1.6	U		2.3	U		2.2	U		2.2	U		2.	U		2.	U	
5103-74-2	gamma-Chlordane	1.6	U		2.3	U		2.2	U		2.2	U		2.	U		2.	U	
8001-35-2	Toxaphene	32.	U		210.	U		43.	U		42.	U		40.	U		40.	U	
12674-11-2	Aroclor-1016	32.	U		43.	U		43.	U		42.	U		40.	U		40.	U	
11104-28-2	Aroclor-1221	32.	U		43.	U		43.	U		42.	U		40.	U		40.	U	
11141-16-5	Aroclor-1232	32.	U		43.	U		43.	U		42.	U		40.	U		40.	U	
53469-21-9	Aroclor-1242	32.	U		43.	U		43.	U		42.	U		40.	U		40.	U	
12672-29-6	Aroclor-1248	32.	U		43.	U		43.	U		42.	U		40.	U		40.	U	
11097-69-1	Aroclor-1254	32.	U		43.	U		43.	U		42.	U		40.	U		40.	U	
11096-82-5	Aroclor-1260	32.	U		43.	U		43.	U		42.	U		40.	U		40.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1303 PEST																	
	SAMPLE ID ------->	3BG-S-0003-10			4BG-S-0004-01			4BG-S-0004-11			5BG-S-0005-01			5BG-S-0005-10			5BG-C-0005-10		
	ORIGINAL ID ----->	3BGS000310			4BGS000401			4BGS000411			5BGS000501			5BGS000510			5BGC000510		
	LAB SAMPLE ID --->	115207			115307			115308			115349			115350			115351		
	SAMPLE DATE ----->	01/11/95			01/11/95			01/11/95			01/12/95			01/12/95			01/12/95		
	DATE EXTRACTED -->	01/18/95			01/18/95			01/18/95			01/18/95			01/18/95			01/18/95		
	DATE ANALYZED --->	01/20/95			01/20/95			01/20/95			01/20/95			01/20/95			01/20/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A
CAS #	Parameter																		
319-84-6	alpha-BHC	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
319-85-7	beta-BHC	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
319-86-8	delta-BHC	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
58-89-9	gamma-BHC (Lindane)	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
76-44-8	Heptachlor	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
309-00-2	Aldrin	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
1024-57-3	Heptachlor epoxide	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
959-98-8	Endosulfan I	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
60-57-1	Dieldrin	4.2	U		311.	D		4.3	U		44.			4.2	U		4.3	U	
72-55-9	4,4'-DDE	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
72-20-8	Endrin	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
33213-65-9	Endosulfan II	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
72-54-8	4,4'-DDD	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
1031-07-8	Endosulfan sulfate	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
50-29-3	4,4'-DDT	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
72-43-5	Methoxychlor	21.	U		21.	U		22.	U		20.	U		21.	U		21.	U	
53494-70-5	Endrin ketone	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
7421-36-3	Endrin aldehyde	4.2	U		4.1	U		4.3	U		4.	U		4.2	U		4.3	U	
5103-71-9	alpha-Chlordane	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
5103-74-2	gamma-Chlordane	2.1	U		2.1	U		2.2	U		2.	U		2.1	U		2.1	U	
8001-35-2	Toxaphene	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	
12674-11-2	Aroclor-1016	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	
11104-28-2	Aroclor-1221	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	
11141-16-5	Aroclor-1232	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	
53469-21-9	Aroclor-1242	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	
12672-29-6	Aroclor-1248	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	
11097-69-1	Aroclor-1254	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	
11096-82-5	Aroclor-1260	42.	U		41.	U		43.	U		40.	U		42.	U		43.	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 SVOA																	
	SAMPLE ID ------->	1BG-S-0001-00		1BG-S-0001-01		1BG-S-0001-10		2BG-S-0002-01		2BG-S-0002-10		3BG-S-0003-01	
	ORIGINAL ID ----->	1BG2000100		1BGS000101		1BGS000110		2BGS000201		2BGS000210		3BGS000301	
	LAB SAMPLE ID --->	115306		115204		115205		115347		115348		115206	
	SAMPLE DATE ----->	01/11/95		01/09/95		01/09/95		01/12/95		01/12/95		01/10/95	
	DATE EXTRACTED -->	01/17/95		01/17/95		01/17/95		01/17/95		01/17/95		01/17/95	
	DATE ANALYZED --->	01/25/95		01/26/95		01/26/95		01/25/95		01/25/95		01/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
67-72-1	Hexachloroethane	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
78-59-1	Isophorone	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
88-75-5	2-Nitrophenol	330.	UR	420.	U	390.	U	430.	U	410.	U	410.	U
105-67-9	2,4-Dimethylphenol	330.	UR	420.	U	390.	U	430.	U	410.	U	410.	U
111-91-1	bis(2-Chloroethoxy)methane	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
120-83-2	2,4-Dichlorophenol	330.	UR	420.	U	390.	U	430.	U	410.	U	410.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
91-20-3	Naphthalene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
106-47-8	4-Chloroaniline	330.	UJ	420.	UJ	390.	UJ	430.	UJ	410.	UJ	410.	UJ
87-68-3	Hexachlorobutadiene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
59-50-7	4-Chloro-3-methylphenol	330.	UR	420.	U	390.	U	430.	U	410.	U	410.	U
91-57-6	2-Methylnaphthalene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
77-47-4	Hexachlorocyclopentadiene	330.	UJ	420.	UJ	390.	UJ	430.	UJ	410.	UJ	410.	UJ
88-06-2	2,4,6-Trichlorophenol	330.	UR	420.	U	390.	U	430.	U	410.	U	410.	U
95-95-4	2,4,5-Trichlorophenol	800.	UR	1000.	U	940.	U	1000.	U	990.	U	990.	U
91-58-7	2-Chloronaphthalene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
88-74-4	2-Nitroaniline	800.	U	1000.	U	940.	U	1000.	U	990.	U	990.	U
131-11-3	Dimethylphthalate	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
208-96-8	Acenaphthylene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
606-20-2	2,6-Dinitrotoluene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
99-09-2	3-Nitroaniline	800.	U	1000.	U	940.	U	1000.	U	990.	U	990.	U
83-32-9	Acenaphthene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
51-28-5	2,4-Dinitrophenol	800.	UR	1000.	UJ	940.	UJ	1000.	UJ	990.	UJ	990.	UJ
100-02-7	4-Nitrophenol	800.	UR	1000.	U	940.	U	1000.	U	990.	U	990.	U
132-64-9	Dibenzofuran	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
121-14-2	2,4-Dinitrotoluene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
84-66-2	Diethylphthalate	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
7005-72-3	4-Chlorophenylphenylether	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
86-73-7	Fluorene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
100-01-6	4-Nitroaniline	800.	UJ	1000.	UJ	940.	UJ	1000.	UJ	990.	UJ	990.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	800.	UR	1000.	U	940.	U	1000.	U	990.	U	990.	U
86-30-6	N-Nitrosodiphenylamine	330.	UJ	420.	UJ	390.	UJ	430.	UJ	410.	UJ	410.	UJ
101-55-3	4-Bromophenylphenylether	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
118-74-1	Hexachlorobenzene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U
87-86-5	Pentachlorophenol	800.	UR	1000.	U	940.	U	1000.	U	990.	U	990.	U
85-01-8	Phenanthrene	330.	U	420.	U	390.	U	430.	U	410.	U	410.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 SVOA																	
	SAMPLE ID ------->	1BG-S-0001-00			1BG-S-0001-01			1BG-S-0001-10			2BG-S-0002-01			2BG-S-0002-10			3BG-S-0003-01		
	ORIGINAL ID ----->	1BG2000100			1BGS000101			1BGS000110			2BGS000201			2BGS000210			3BGS000301		
	LAB SAMPLE ID --->	115306			115204			115205			115347			115348			115206		
	SAMPLE DATE ----->	01/11/95			01/09/95			01/09/95			01/12/95			01/12/95			01/10/95		
	DATE EXTRACTED -->	01/17/95			01/17/95			01/17/95			01/17/95			01/17/95			01/17/95		
	DATE ANALYZED --->	01/25/95			01/26/95			01/26/95			01/25/95			01/25/95			01/25/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A
CAS #	Parameter																		
120-12-7	Anthracene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
86-74-8	Carbazole	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
84-74-2	Di-n-butylphthalate	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
206-44-0	Fluoranthene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
129-00-0	Pyrene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
85-68-7	Butylbenzylphthalate	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
91-94-1	3,3'-Dichlorobenzidine	330.	UJ		420.	UJ		390.	UJ		430.	UJ		410.	UJ		410.	UJ	
56-55-3	Benzo(a)anthracene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
218-01-9	Chrysene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
117-84-0	Di-n-octylphthalate	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
205-99-2	Benzo(b)fluoranthene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
207-08-9	Benzo(k)fluoranthene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
50-32-8	Benzo(a)pyrene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
53-70-3	Dibenzo(a,h)anthracene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
191-24-2	Benzo(g,h,i)perylene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
108-95-2	Phenol	330.	UR		420.	U		390.	U		430.	U		410.	U		410.	U	
111-44-4	bis(2-Chloroethyl)ether	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
95-57-8	2-Chlorophenol	330.	UR		420.	U		390.	U		430.	U		410.	U		410.	U	
541-73-1	1,3-Dichlorobenzene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
106-46-7	1,4-Dichlorobenzene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
95-50-1	1,2-Dichlorobenzene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
95-48-7	2-Methylphenol (o-Cresol)	330.	UR		420.	U		390.	U		430.	U		410.	U		410.	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	
106-44-5	4-Methylphenol (p-Cresol)	330.	UR		420.	U		390.	U		430.	U		410.	U		410.	U	
98-95-3	Nitrobenzene	330.	U		420.	U		390.	U		430.	U		410.	U		410.	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 SVOA													
	SAMPLE ID ------->	3BG-S-0003-10		4BG-S-0004-01		4BG-S-0004-11		5BG-S-0005-01		5BG-S-0005-10		5BG-C-0005-10	
	ORIGINAL ID ----->	3BGS000310		4BGS000401		4BGS000411		5BGS000501		5BGS000510		5BGC000510	
	LAB SAMPLE ID --->	115207		115307		115308		115349		115350		115351	
	SAMPLE DATE ----->	01/11/95		01/11/95		01/11/95		01/12/95		01/12/95		01/12/95	
	DATE EXTRACTED -->	01/17/95		01/17/95		01/18/95		01/17/95		01/17/95		01/17/95	
	DATE ANALYZED --->	01/25/95		01/25/95		01/25/95		01/25/95		01/25/95		01/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
67-72-1	Hexachloroethane	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
78-59-1	Isophorone	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
88-75-5	2-Nitrophenol	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
105-67-9	2,4-Dimethylphenol	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
111-91-1	bis(2-Chloroethoxy)methane	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
120-83-2	2,4-Dichlorophenol	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
91-20-3	Naphthalene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
106-47-8	4-Chloroaniline	410.	UJ	410.	UJ	430.	UJ	400.	UJ	420.	UJ	430.	UJ
87-68-3	Hexachlorobutadiene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
59-50-7	4-Chloro-3-methylphenol	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
91-57-6	2-Methylnaphthalene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
77-47-4	Hexachlorocyclopentadiene	410.	UJ	410.	UJ	430.	UJ	400.	UJ	420.	UJ	430.	UJ
88-06-2	2,4,6-Trichlorophenol	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U	1000.	U	1000.	U	980.	U	1000.	U	1000.	U
91-58-7	2-Chloronaphthalene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
88-74-4	2-Nitroaniline	1000.	U	1000.	U	1000.	U	980.	U	1000.	U	1000.	U
131-11-3	Dimethylphthalate	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
208-96-8	Acenaphthylene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
606-20-2	2,6-Dinitrotoluene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
99-09-2	3-Nitroaniline	1000.	U	1000.	U	1000.	U	980.	U	1000.	U	1000.	U
83-32-9	Acenaphthene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
51-28-5	2,4-Dinitrophenol	1000.	UJ	1000.	UJ	1000.	UJ	980.	UJ	1000.	UJ	1000.	UJ
100-02-7	4-Nitrophenol	1000.	U	1000.	U	1000.	U	980.	U	1000.	U	1000.	U
132-64-9	Dibenzofuran	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
121-14-2	2,4-Dinitrotoluene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
84-66-2	Diethylphthalate	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
7005-72-3	4-Chlorophenylphenylether	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
86-73-7	Fluorene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
100-01-6	4-Nitroaniline	1000.	UJ	1000.	UJ	1000.	UJ	980.	UJ	1000.	UJ	1000.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U	1000.	U	1000.	U	980.	U	1000.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	410.	UJ	410.	UJ	430.	UJ	400.	UJ	420.	UJ	430.	UJ
101-55-3	4-Bromophenylphenylether	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
118-74-1	Hexachlorobenzene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
87-86-5	Pentachlorophenol	1000.	U	1000.	U	1000.	U	980.	U	1000.	U	1000.	U
85-01-8	Phenanthrene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1303 SVOA													
	SAMPLE ID ------->	3BG-S-0003-10		4BG-S-0004-01		4BG-S-0004-11		5BG-S-0005-01		5BG-S-0005-10		5BG-C-0005-10	
	ORIGINAL ID ----->	3BGS000310		4BGS000401		4BGS000411		5BGS000501		5BGS000510		5BGC000510	
	LAB SAMPLE ID --->	115207		115307		115308		115349		115350		115351	
	SAMPLE DATE ----->	01/11/95		01/11/95		01/11/95		01/12/95		01/12/95		01/12/95	
	DATE EXTRACTED -->	01/17/95		01/17/95		01/18/95		01/17/95		01/17/95		01/17/95	
	DATE ANALYZED --->	01/25/95		01/25/95		01/25/95		01/25/95		01/25/95		01/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
86-74-8	Carbazole	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
84-74-2	Di-n-butylphthalate	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
206-44-0	Fluoranthene	410.	U	42.	J	430.	U	110.	J	420.	U	430.	U
129-00-0	Pyrene	410.	U	410.	U	430.	U	94.	J	420.	U	430.	U
85-68-7	Butylbenzylphthalate	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
91-94-1	3,3'-Dichlorobenzidine	410.	UJ	410.	UJ	430.	UJ	400.	UJ	420.	UJ	430.	UJ
56-55-3	Benzo(a)anthracene	410.	U	410.	U	430.	U	67.	J	420.	U	430.	U
218-01-9	Chrysene	410.	U	410.	U	430.	U	65.	J	420.	U	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
117-84-0	Di-n-octylphthalate	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
205-99-2	Benzo(b)fluoranthene	410.	U	410.	U	430.	U	81.	J	420.	U	430.	U
207-08-9	Benzo(k)fluoranthene	410.	U	410.	U	430.	U	76.	J	420.	U	430.	U
50-32-8	Benzo(a)pyrene	410.	U	410.	U	430.	U	93.	J	420.	U	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	410.	U	410.	U	430.	U	77.	J	420.	U	430.	U
53-70-3	Dibenzo(a,h)anthracene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
191-24-2	Benzo(g,h,i)perylene	410.	U	410.	U	430.	U	95.	J	420.	U	430.	U
108-95-2	Phenol	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
111-44-4	bis(2-Chloroethyl)ether	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
95-57-8	2-Chlorophenol	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
541-73-1	1,3-Dichlorobenzene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
106-46-7	1,4-Dichlorobenzene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
95-50-1	1,2-Dichlorobenzene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
95-48-7	2-Methylphenol (o-Cresol)	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
106-44-5	4-Methylphenol (p-Cresol)	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U
98-95-3	Nitrobenzene	410.	U	410.	U	430.	U	400.	U	420.	U	430.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 TPH						
SAMPLE ID ------->	1BG-S-0001-00	1BG-S-0001-01	1BG-S-0001-10	2BG-S-0002-01	2BG-S-0002-10	3BG-S-0003-01
ORIGINAL ID ----->	1BG2000100	1BGS000101	1BGS000110	2BGS000201	2BGS000210	3BGS000301
LAB SAMPLE ID --->	115300	115198	115199	115341	115342	115200
SAMPLE DATE ----->	01/11/95	01/09/95	01/09/95	01/12/95	01/12/95	01/10/95
DATE EXTRACTED -->	01/27/95	01/27/95	01/27/95	01/27/95	01/27/95	01/27/95
DATE ANALYZED --->	01/30/95	01/27/95	01/27/95	01/30/95	01/30/95	01/27/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	67. U	82. U	84. U	87. U	83. U	88. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 TPH						
SAMPLE ID ------->	3BG-S-0003-10	4BG-S-0004-01	4BG-S-0004-11	5BG-S-0005-01	5BG-S-0005-10	5BG-C-0005-10
ORIGINAL ID ----->	3BGS000310	4BGS000401	4BGS000411	5BGS000501	5BGS000510	5BGC000510
LAB SAMPLE ID --->	115201	115301	115302	115343	115344	115345
SAMPLE DATE ----->	01/10/95	01/11/95	01/11/95	01/12/95	01/12/95	01/12/95
DATE EXTRACTED -->	01/27/95	01/27/95	01/27/95	01/27/95	01/27/95	01/27/95
DATE ANALYZED --->	01/27/95	01/30/95	01/30/95	01/30/95	01/30/95	01/30/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	82. U	81. U	85. U	82. U	85. U	84. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 VOA													
	SAMPLE ID ------->	1BG-S-0001-00		1BG-S-0001-01		1BG-S-0001-10		2BG-S-0002-01		2BG-S-0002-10		3BG-S-0003-01	
	ORIGINAL ID ----->	1BG2000100		1BGS000101		1BGS000110		2BGS000201		2BGS000210		3BGS000301	
	LAB SAMPLE ID --->	115306		115204		115205		115347		115348		115206	
	SAMPLE DATE ----->	01/11/95		01/09/95		01/09/95		01/12/95		01/12/95		01/10/95	
	DATE ANALYZED --->	01/18/95		01/17/95		01/17/95		01/17/95		01/17/95		01/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	1400.	U	13.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ
74-83-9	Bromomethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
75-01-4	Vinyl chloride	1400.	U	13.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ
75-00-3	Chloroethane	1400.	U	13.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ
75-09-2	Methylene chloride	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
67-64-1	Acetone	1400.	UJ	13.	U	13.	U	13.	U	12.	U	12.	U
75-15-0	Carbon disulfide	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
75-35-4	1,1-Dichloroethene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
75-34-3	1,1-Dichloroethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
540-59-0	1,2-Dichloroethene (total)	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
67-66-3	Chloroform	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
107-06-2	1,2-Dichloroethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
78-93-3	2-Butanone (MEK)	1400.	U	13.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ
71-55-6	1,1,1-Trichloroethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
56-23-5	Carbon tetrachloride	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
75-27-4	Bromodichloromethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
78-87-5	1,2-Dichloropropane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
10061-01-5	cis-1,3-Dichloropropene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
79-01-6	Trichloroethene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
124-48-1	Dibromochloromethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
79-00-5	1,1,2-Trichloroethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
71-43-2	Benzene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
10061-02-6	trans-1,3-Dichloropropene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
75-25-2	Bromoform	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1400.	U	13.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ
591-78-6	2-Hexanone	1400.	U	13.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ
127-18-4	Tetrachloroethene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
108-88-3	Toluene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
108-90-7	Chlorobenzene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
100-41-4	Ethylbenzene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
100-42-5	Styrene	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U
1330-20-7	Xylene (Total)	1400.	U	13.	U	13.	U	13.	U	12.	U	12.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1303 VOA																	
	SAMPLE ID ------->	3BG-S-0003-10		4BG-S-0004-01		4BG-S-0004-11		5BG-S-0005-01		5BG-S-0005-10		5BG-C-0005-10	
	ORIGINAL ID ----->	3BGS000310		4BGS000401		4BGS000411		5BGS000501		5BGS000510		5BGC000510	
	LAB SAMPLE ID --->	115207		115307		115308		115349		115350		115351	
	SAMPLE DATE ----->	01/11/95		01/11/95		01/11/95		01/12/95		01/12/95		01/12/95	
	DATE ANALYZED --->	01/17/95		01/17/95		01/17/95		01/17/95		01/17/95		01/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	12.	UJ	12.	UJ	13.	UJ	12.	UJ	13.	UJ	13.	UJ
74-83-9	Bromomethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
75-01-4	Vinyl chloride	12.	UJ	12.	UJ	13.	UJ	12.	UJ	13.	UJ	13.	UJ
75-00-3	Chloroethane	12.	UJ	12.	UJ	13.	UJ	12.	UJ	13.	UJ	13.	UJ
75-09-2	Methylene chloride	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
67-64-1	Acetone	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
75-15-0	Carbon disulfide	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
75-35-4	1,1-Dichloroethene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
75-34-3	1,1-Dichloroethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
67-66-3	Chloroform	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
107-06-2	1,2-Dichloroethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
78-93-3	2-Butanone (MEK)	12.	UJ	12.	UJ	13.	UJ	12.	UJ	13.	UJ	13.	UJ
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
56-23-5	Carbon tetrachloride	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
75-27-4	Bromodichloromethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
78-87-5	1,2-Dichloropropane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
79-01-6	Trichloroethene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
124-48-1	Dibromochloromethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
71-43-2	Benzene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
75-25-2	Bromoform	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	UJ	12.	UJ	13.	UJ	12.	UJ	13.	UJ	13.	UJ
591-78-6	2-Hexanone	12.	UJ	12.	UJ	13.	UJ	12.	UJ	13.	UJ	13.	UJ
127-18-4	Tetrachloroethene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
108-88-3	Toluene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
108-90-7	Chlorobenzene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
100-41-4	Ethylbenzene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
100-42-5	Styrene	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U
1330-20-7	Xylene (Total)	12.	U	12.	U	13.	U	12.	U	13.	U	13.	U

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00209, 95.00210, 95.00236, 95.00239, 95.00253, and 95.00254 (Level III Validation)
Case Nº:	FD1311

Sample Identification	Matrix
003S000101	Soil
003S000107	Soil
003S000107D	Soil
003S000107S	Soil
003S000114	Soil
003S000201	Soil
003S000208	Soil
003S000214	Soil
003C000214	Soil
003S000301	Soil
003S000307	Soil
003S000311	Soil
003E012695	Water
003P012695	Water
003S000401	Soil
003S000407	Soil
003S000412	Soil
003F012795	Water

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INTRODUCTION

This data review report covers 15 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this package. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form X), inter-element corrections (Form XI A & B) and linear range analysis (Form XII) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field Trip, or other blanks (µg/L)	Action Level (5x high. blk.)		Associated Samples
				(mg/kg)	(µg/L)		Soil (mg/kg)	Water(µg/L)	
Aluminum									
Antimony	40			8.36			41.8	209	All
Arsenic									
Barium	2.0					26.2	26.2	131	All
Beryllium									
Cadmium	3	-3.4					3.4	17	All
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel	15	-18.8	-28.9	-4.9			28.9	144	All
Potassium									
Selenium	2	2.6	2.6			2.2	2.6	13	All

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field Trip, or other blanks (µg/L)	Action Level (5x high. blk.)		Associated Samples
				(mg/kg)	(µg/L)		Soil (mg/kg)	Water(µg/L)	
Silver									
Sodium									
Thallium	2	-2.0	-2.0	-0.58			2.9	14.5	All
Tin	15	15.9	44.1		40.3	38.4	44.1	220	All
Vanadium									
Zinc	5	-5.3	-5.1				5.3	26.5	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
003S000101	Cadmium	2.2	2.2U
	Nickel	6.7B	6.7U
	Tin	5.4B	5.4U
	Selenium	0.91B	0.91U
003S000107	Cadmium	2.7	2.7U
	Nickel	12.7	12.7U
	Tin	9.4B	9.4U
	Antimony	12.2B	12.2U
	Selenium	0.57B	0.57U
003S000107D	Cadmium	2.3	2.3U
	Nickel	13.7	13.7U
	Selenium	0.61B	0.61U
003S000114	Nickel	18.6	18.6U
	Tin	8.8B	8.8U
	Selenium	0.76B	0.76U
003S000201	Nickel	14.2	14.2U
	Tin	9.8B	9.8U
	Antimony	10.7B	10.7U
	Selenium	0.62B	0.62U
003S000208	Nickel	13.9	13.9U
	Tin	8.0B	8.0U
	Antimony	13.8B	13.8U
	Selenium	0.74B	0.74U
003S000214	Cadmium	3.3	3.3U
	Nickel	8.9B	8.9U
	Tin	7.5B	7.5U
	Antimony	11.2B	11.2U
	Selenium	0.51B	0.51U
003C000214	Cadmium	1.5	1.5U
	Nickel	8.9B	8.9U
	Tin	6.1B	6.1U
	Selenium	0.98B	0.98U
003S000301	Cadmium	3.1	3.1U
	Nickel	13.2	13.2U
	Tin	12.7B	12.7U
	Selenium	0.89B	0.89U

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
003S000307	Nickel Tin Selenium	10.6 10.4B 1.2B	10.6U 10.4U 1.2U
003S000401	Cadmium Tin Antimony Selenium	1.8 7.2B 10.8B 0.90B	1.8U 7.2U 10.8U 0.90U
003S000407	Cadmium Nickel Tin Antimony Selenium	1.9 7.4B 8.4B 11.1B 0.90B	1.9U 7.4U 8.4U 11.1U 0.90U
003S000311	Nickel Tin Selenium	10.8 7.2B 1.1B	10.8U 7.2U 1.1U
003S000412	Nickel Tin Selenium	17.9 15.0B 0.96B	17.9U 15.0U 0.96U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

Analytes that are not present in the ICS solution but has an absolute value > IDL were listed below:

Sample	Element	Found µg/L	IDL (µg/L)	Samples Affected	Flag
ICSAF	Cd	+ 32	3.0	None	None
ICSAF	Cr	- 36	5.0	None	None
ICSAI	Cu	+ 8	5.0	None	None
ICSAI	V	- 11	4.0	None	None
ICSAI	Zn	+ 25	5.0	None	None
ICSAI	Sn	+ 46	15.0	None	None
ICSAI	Ag	+ 3.4	3.0	None	None

No samples were affected since no interferants were found in the samples at levels approximate or higher than those found in the ICSs.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met except for the following:

Sample	Element	RPD	QC Limit	(S-D)	Control Limit	Associated Samples	Flag
03S107D	Lead	36.9	<35%			All	J(detects)/None(non-detects)
03S107D	Mercury			0.23	< ±0.2	All	J(detects)/None(non-detects)

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	%R	Associated Samples	QC Limit	Flag
Arsenic	127	All	±75 - 125 %	J(detects)/None(non-detects)
Antimony	58	All	±75 - 125%	J(detects)/None(non-detects)

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. GRAPHITE FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within ≥20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
003S000201	Lead	141	85-115%	None(MSA passed)
003S000412	Lead Arsenic	162 118	85-115% 85-115%	None(MSA passed)
003S000101	Selenium	81.5	85-115%	J(detects)/UJ(non-detects)
003S000107	Selenium	79.5	85-115%	J(detects)/UJ(non-detects)
003S000114	Selenium	83.5	85-115%	J(detects)/UJ(non-detects)
003S000208	Selenium	77.5	85-115%	J(detects)/UJ(non-detects)
003S000214	Selenium	70.5	85-115%	J(detects)/UJ(non-detects)

MSA was performed and the results were within QC limit.

MSA was required for the following but were not performed:

Sample	Element	Flag
003S000101	Selenium	J(detects)/UJ(non-detects)
003S000107		J(detects)/UJ(non-detects)
003S000114		J(detects)/UJ(non-detects)
003S000208		J(detects)/UJ(non-detects)
003S000214		J(detects)/UJ(non-detects)

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

No raw data checks were carried out for this package.

XI. FIELD DUPLICATES

One set of field duplicate was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (mg/kg)		|S - D| (mg/kg)	QC Limit (mg/kg)	Flag
	003S000214	003C000214			
Arsenic	8.6	18.9	10.3	<8	J

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - Case Nº FD1311

Case Nº	Sample ID	Parameter	Flag	Reason
FD1311	003S000107 000S000214 003S000407	Cadmium Nickel Tin Selenium Antimony	U	Blank Contamination
FD1311	003S000101 003C000214 003S000301	Cadmium Nickel Tin Selenium	U	Blank Contamination
FD1311	003S000201 003S000208	Nickel Tin Selenium Antimony	U	Blank Contamination
FD1311	003S000114 003S000307 003S000412 003S000311	Nickel Tin Selenium	U	Blank Contamination
FD1311	003S000107D	Cadmium Nickel Selenium	U	Blank Contamination
FD1311	003S000401	Cadmium Tin Antimony Selenium	U	Blank Contamination
FD1311	All	Lead Mercury	J(detects)/None(non-detects)	Duplicate analysis
FD1311	All	Antimony Arsenic	J(detects)/UJ(non-detects)	Matrix spike
FD1311	003S000101 003S000107 003S000114 003S000208 003S000214	Selenium	J(detects)/UJ(non-detects)	Analytical spike % R out and MSA was not performed
FD1311	003S000214 003C000214	Arsenic	J	Field Duplicate RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00209, 95.00210, 95.00236 95.00239, 95.00253, 95.00254 (Level III Validation)
Case Nº:	FD1311

Sample Identification	Matrix
003E012695	Water
003F012795	Water
003P012695	Water
003T012595	Water
003T012695	Water
003T012795	Water
003C000214	Soil
003S000101	Soil
003S000107	Soil
003S000114	Soil
003S000201	Soil
003S000208	Soil
003S000214	Soil
003S000301	Soil
003S000307	Soil
003S000311	Soil
003S000401	Soil
003S000407	Soil
003S000412	Soil
003S000107MS	Soil
003S000107MSD	Soil
003T012695MS	Water
003T012695MSD	Water

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INTRODUCTION

This data review report covers 15 soil samples and 8 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements.

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
01/28/98 13:10	HP5970H	Chloromethane 1,2-Dichloropropane Benzene trans-1,3-Dichloropropene	-29.1(±25.0) -31.7(±25.0) -28.2(±25.0) -26.8(±25.0)	003C000214 003S000101 003S000107 003S000114 003S000201 003S000208 003S000214	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
01/30/95 10:23	HP5970H	Carbon Disulfide 1,2-Dichloropropane trans-1,3-Dichloropropene	68.0(±25.0) -25.8(±25.0) -29.0(±25.0)	003S000301 003S000307 003S000311	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
01/31/95 09:35	HP5970H	1,2-Dichloropropane trans-1,3-Dichloropropene	-41.0(±25.0) -40.1(±25.0)	003S000401 003S000407	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/03/95 16:45	HP5970H	Acetone Carbon Disulfide	+36.0(±25.0) +30.4(±25.0)	003S000412	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

1) Method Blank

The method blank analyses were performed at required frequencies.

Contaminants found in the method blank(s) are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level 5 x (µg/L)	Associated Samples	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
01/30/95	VBLK013095E	1,12,2-Tetrachloroethane	2	10	003T012595 003P012695	10U 10U	None None

2) Field Blank

The field blank analyses were performed at required frequencies.

Contaminants found in the field blank(s) are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level (µg/L) 5 x	Action Level (µg/L) 10 x	Associated Samples	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
01/30/95	003P012695	Acetone	4J		40	003S000301	12U	None
		Chloroform	1J	5			12U	None
		Bromodichloromethane	1J	5			12U	None
		Dibromochloroethane	1J	5			12U	None
						003S000307	13U	None
							13U	None
							13U	None
							13U	None
						003S000311	13U	None
							13U	None
							13U	None
							13U	None
01/30/95	003T012595	Methylene Chloride	1J		10	003S000101	1J	13U
						003S000107	2J	13U
						003S000114	1J	13U
						003S000201	1J	13U
						003S000208	1J	14U
						003S000214	1J	13U
						003C000214	1J	12U
02/01/95	003F012795	Methylene Chloride	1J		10	003S000401	12U	None
						003S000407	13U	None
						003S000412	13U	None
02/02/95	003T012695	Methylene Chloride	2J		20	003S000301	12U	None
						003S000307	13U	None
						003S000311	13U	None

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

2 sets of matrix spike (MS) and matrix spike duplicate (MSD) was/were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits for the investigative samples except for the following:

Sample	Spiked Compound	MS %R (Limit)	MSD %R (Limit)	Flag
003S000107	1,1-Dichloroethene	28 (59-172)	30 (59-172)	J(detect)/UJ(non-detect)
	Trichloroethene	46 (62-137)	49 (62-137)	J(detect)/UJ(non-detect)
	Benzene	51 (66-142)	55 (66-142)	J(detect)/UJ(non-detect)
	Toluene	56 (59-139)		J(detect)/UJ(non-detect)

Trip blank 003T012695 should have never been spiked. No data was qualified based on the spike results.

VIII. LABORATORY CONTROL SAMPLES

No LCS was analyzed.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

1 set of field duplicates was/were analyzed in this SDG. All detected analytes were within QC limit.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1311

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1311	003C000214 003S000101 003S000107 003S000114 003S000201 003S000208 003S000214	Chloromethane 1,2-Dichloropropane Benzene trans-1,3-Dichloropropene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration D% out
FD1311	003S000301 003S000307 003S000311	Carbon Disulfide 1,2-Dichloropropane trans-1,3-Dichloropropene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration D% out
FD1311	003S000401 003S000407	1,2-Dichloropropane trans-1,3-Dichloropropene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration D% out
FD1311	003S000412	Acetone Carbon Disulfide	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration D% out
FD1311	003S000107	1,1-Dichloroethene Trichloroethene Benzene Toluene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	MS %R out
FD1311	003S000101 003S000107 003S000114 003S000201 003S000208 003S000214 003C000214	Methylene Chloride	13U 13U 13U 13U 14U 13U 12U	Field Blank Contamination

E/A&H VALIDATION ADDENDUM

Validation Subcontractor:	CKY Environmental Services, Inc.
Site Name:	NAS Memphis, Millington, Tennessee
CTO and Subtask No.:	0094-04730
Laboratory:	NET Atlantic, Inc.
Sample Delivery Group:	FD1311
Matrix:	Soil
Analysis:	Volatile Organic Compounds
Sample:	003S000107
E/A&H Project Chemist:	Charlene M. Thompson cmt

Acetone was found at a concentration of 4 μg/Kg in sample 003S000107. The validators did not negate acetone in this sample because it was not detected in any of the blanks presented with the SDG data package.

Acetone was detected in potable water blank 003P012695 at a concentration of 4 μg/L. Although this sample was not analyzed with SDG FD1311, it is associated with sample 003S000107 because it was collected the same week as the sample in question.

Acetone was qualified as nondetect (U) in sample 003S000107 and the detection limit was raised to the quantitation limit.

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00209, 95.00210, 95.00236, 95.00239, 95.00253, and 95.00254 (Level III Validation)
Case Nº:	FD1311

Sample Identification	Matrix
003C000214	Soil
003E012695	Water
003F012795	Water
003P012695	Water
003S000101	Soil
003S000107	Soil
003S000114	Soil
003S000201	Soil
003S000208	Soil
003S000214	Soil
003S000301	Soil
003S000307	Soil
003S000311	Soil
003S000401	Soil
003S000407	Soil
003S000412	Soil
003S000107MS	Soil
003S000107MSD	Soil

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INTRODUCTION

This data review report covers 15 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

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J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date	Instrument	Compound	%RSD (Guideline QC Limit)	Associated Samples	Flag
01/16/95	HP5970F	2,4-Dinitrophenol	44.7 (≤30%)	All samples	J(detects)/UJ(non-detects)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%D (Guideline QC Limit)	Associated Samples	Flag
02/01/95	HP5970F	4-Chloroaniline 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine 3,3'-Dichlorobenzidine bis(2-ethylhexyl)phthalate	73.0 (≤25%) -32.5 (≤25%) -41.8 (≤25%) 63.5 (≤25%) -29.3 (≤25%) -34.6 (≤25%)	None	None
02/08/95	HP5970F	4-Chloroaniline Hexachlorocyclopentadiene 4-Nitroaniline N-Nitrosodiphenylamine Carbazole 3,3'-Dichlorobenzidine bis(2-ethylhexyl)phthalate	73.2 (≤25%) 34.4 (≤25%) -34.8 (≤25%) 61.3 (≤25%) -28.4 (≤25%) -29.9 (≤25%) -33.4 (≤25%)	003S000101 003S000107 003S000114 003S000201 003S000208 003S000214 003C000214 003S000301 003S000307	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)
02/09/95	HP5970F	2,2'-Oxybis(1-Chloropropane) 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine Carbazole 3,3'-Dichlorobenzidine bis(2-ethylhexyl)phthalate 2,4,6-Tribromophenol	28.4 (≤25%) 72.4 (≤25%) 40.2 (≤25%) -26.6 (≤25%) -40.7 (≤25%) 63.5 (≤25%) -30.0 (≤25%) -33.6 (≤25%) -37.2 (≤25%) 29.2 (≤25%)	003S000311 003S000401 003S000407 003S000412	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)

V. BLANKS

The method blank analyses were performed at required frequencies.

Contaminants found in the method blank are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)1	Action Level 10 x (µg/kg)	Associated Samples	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
01/30/95	SBLK013095F	Di-n-Butyl phthalate	340	3400	003C000214	410U	None
					003S000101	400U	None
					003S000107	400U	None
					003S000201	420U	None
					003S000208	400U	None
					003S000214	410U	None
					003S000301	400U	None
					003S000307	430U	None
					003S000311	410U	None
					003S000401	400U	None
					003S000407	410U	None
					003S000412	430U	None
					003S000114	420U	None

The field blank analyses were performed at required frequencies.

No contaminant was found in the field blanks.

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SOW.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1311

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1311	All samples	2,4-Dinitrophenol	J(detects)/UJ(non-detects)	Initial calibration %RSD
FD1311	003S000101 003S000107 003S000114 003S000201 003S000208 003S000214 003C000214 003S000301 003S000307	4-Chloroaniline Hexachlorocyclopentadiene 4-Nitroaniline N-Nitrosodiphenylamine Carbazole 3,3'-Dichlorobenzidine bis(2-ethylhexyl)phthalate	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1311	003S000311 003S000401 003S000407 003S000412	2,2'-Oxybis(1-Chloropropane) 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine Carbazole 3,3'-Dichlorobenzidine bis(2-ethylhexyl)phthalate 2,4,6-Tribromophenol	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00209, 95.00210, 95.00236, 95.00239, 95.00253, and 95.00254 (Level III Validation)
Case Nº:	FD1311

Sample Identification	Matrix
003C000214	Soil
003E012695	Water
003F012795	Water
003P012695	Water
003S000101	Soil
003S000107	Soil
003S000114	Soil
003S000201	Soil
003S000208	Soil
003S000214	Soil
003S000301	Soil
003S000307	Soil
003S000311	Soil
003S000401	Soil
003S000407	Soil
003S000412	Soil
003S000107MS	Soil
003S000107MSD	Soil

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INTRODUCTION

This data review report covers 15 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSD for calibration factors of single component analytes were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit except for the following:

Date/ Time	Column/ Standard	Compounds	%D	QC Limit	Associated Samples	Flag
02/09/95 10:12	RTX-35/INDBM18	Endosulfan II	-17.10	≤ ±15%	003S000208 003S000214 003S000301 003S000307 003S000311	J(detect)/UJ(non-detect)
02/16/95 18:27	RTX-35/INDAM19	Endrin	15.25	≤ ±15%	003S000407 003S000412	J(detect)/UJ(non-detect)
02/17/95 03:49	RTX-35/INDBM20	Endosulfan II	-16.41	≤ ±15%	003S000407 003S000412	J(detect)/UJ(non-detect)
02/17/95 12:31	RTX-35/INDBM21	Endosulfan II	21.72	≤ ±15%	003S000401	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency. RT windows were all within QC limit. Instrument blanks were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	Surrogate Spike Compound	%R (Adv. Limit %)	Flag
003S000101	XTI5 RTX-35	TCX1 TCX2	33 (40-137%) 33 (40-137%)	None (only one surrogate out) None (only one surrogate out)
003S000311	XTI5 RTX-35	TCX1 TCX2	37 (40-137%) 37 (40-137%)	None (only one surrogate out) None (only one surrogate out)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

No laboratory control samples were analyzed for this SDG.

IX. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limit.

X. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were properly identified.

Case narrative stated that the primary column was XTI5 (front). However, in the data package, the rear column (RTX-35) was used as the primary column since more of it's results met QC requirement.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1311

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1311	003S000208 003S000214 003S000301 003S000307 003S000311 003S000407 003S000412 003S000401	Endosulfan II	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1311	003S000407 003S000412	Endrin	J(detect)/UJ(non-detect)	Continuing calibration %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00209, 95.00210, 95.00239, 95.00253, & 95.00254 (Level III Validation)
SDG Nº:	FD1311

Sample Identification	Matrix
003E012695	Water
003P012695	Water
003F012795	Water
003S000101	Soil
003S000107	Soil
003S000114	Soil
003S000201	Soil
003S000208	Soil
003S000214	Soil
003C000214	Soil
003S000301	Soil
003S000307	Soil
003S000311	Soil
003S000401	Soil
003S000407	Soil
003S000412	Soil
003S000107MS	Soil
003S000107MSD	Soil

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INTRODUCTION

This data review report covers 15 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of single component analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/14/95 23:49	RF1X / RTX-5 RF2X RF4X RF10X RF20X	MCPP MCPA	24.5 21.5	±20% ±20%	All	J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/15/95 20:55	8150L3 / RTX-35	Silvex 2,4-DB	-22.3 (±15%) -20.9 (±15%)	003S000101 003S000107	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/16/95 18:26	8150L3 / RTX-35	Silvex	-25.2 (±15%)	003S000101 003S000107 003S000114 003S000201 003S000208	J(detect)/UJ(non-detect)
02/17/95 08:44	8150L3 / RTX-35	Silvex	-23.2 (±15%)	003S000214 003C000214 003S000301 003S000307 003S000311	J(detect)/UJ(non-detect)
02/17/95 16:28	8150L3 / RTX-35	Silvex	-19.5 (±15%)	003S000401 003S000407 003S000412	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	%R (Adv. Limit %)	Compounds Affected	Flag
003S000412	RTX-5	125 (40-115%)	Dicamba MCPP MCPA Dichloroprop 2,4-D 2,4,5-T Dinoseb	J(detect)/None(non-detect)
003S000101	RTX-35	119 (40-115%)	Silvex 2,4-DB	J(detect)/None(non-detect)
003S000107	RTX-35	1253 (40-115%)	Silvex 2,4-DB	J(detect)/None(non-detect)
003S000208	RTX-35	116 (40-115%)	Silvex 2,4-DB	J(detect)/None(non-detect)
003S000301	RTX-35	124 (40-115%)	Silvex 2,4-DB	J(detect)/None(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
003S000107	2,4,5-TP			88 (≤20%)	J(detect)/UJ(non-detect)
	Dinoseb		8 (10-150%)	40 (≤20%)	J(detect)/UJ(non-detect)
	Dalapon	0 (10-150%)	0 (10-150%)		J(detect)/R(non-detect)
	2,4-DB			26 (≤20%)	J(detect)/UJ(non-detect)
	MCPA	192 (10-150%)	190 (10-150%)		J(detect)/None(non-detect)
	MCPP	0 (10-150%)	192 (10-150%)	200 (≤20%)	J(detect)/R(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
LCS0201S	RTX-5 RTX-35	Dinoseb Dinoseb	1.49 (10-150%) 0.00 (10-150%)	0.00 (24.06-24.16)	003S000101 003S000107 003S000114 003S000201 003S000208 003S000214 003C000214 003S000301 003S000307 003S000311	J(detect)/UJ(non-detect) None (confirmation only)
LCS0206S	RTX-5 RTX-35	MCPP Silvex Dinoseb 2,4,5-T	249.11 (10-150%) 1228.10 (10-150%) 8.75 (10-150%) 156.73 (10-150%)		003S000401 003S000407 003S000412	J(detect)/None(non-detect) None (confirmation only) J(detect)/UJ(non-detect) None (confirmation only)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were properly identified, %D for 2 columns met QC requirement except for the following:

Sample	Compound	%D	QC Limit	Flag
003S000412	Dinoseb	205.9	$\leq$25%	J(detect)

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1311

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1311	All	MCPP MCPA	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1311	003S000101 003S000107	2,4-DB	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1311	003S000101 003S000107 003S000114 003S000201 003S000208	Silvex	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1311	003S000214 003C000214 003S000307 003S000301 003S000311 003S000401 003S000407 003S000412	Silvex	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1311	003S000107	2,4,5-TP Dinoseb Dalapon 2,4-DB MCPA MCPP	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect) J(detect)/UJ(non-detect) J(detect)/None(non-detect) J(detect)/R(non-detect)	Matrix spike/Matrix spike duplicate %R & RPD
FD1311	003S000101 003S000107 003S000114 003S000201 003S000208 003S000214 003C000214 003S000301 003S000307 003S000311	Dinoseb	J(detect)/UJ(non-detect)	Laboratory control sample %R
FD1311	003S000401 003S000407 003S000412	MCPP Dinoseb	J(detect)/None(non-detect) J(detect)/UJ(non-detect)	Laboratory control sample %R
FD1311	003S000412	Dinoseb	J(detect)	2-column %D
FD1311	003S000101 003S000107 003S000208 003S000301	Silvex 2,4-DB	J(detect)/None(non-detect) J(detect)/None(non-detect)	Surrogate spike %R
FD1311	003S000412	Dalapon Dicamba MCPP MCPA Dichloroprop 2,4-D 2,4,5-T Dinoseb	J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect)	Surrogate spike %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00209, 95.00210, 95.00236, 95.00239, 95.00253, & 95.00254 (Level III Validation)
SDG Nº:	FD1311

Sample Identification	Matrix
003C000214	Soil
003E012695	Water
003F012795	Water
003P012695	Water
003S000101	Soil
003S000107	Soil
003S000114	Soil
003S000201	Soil
003S000208	Soil
003S000214	Soil
003S000301	Soil
003S000307	Soil
003S000311	Soil
003S000401	Soil
003S000407	Soil
003S000412	Soil
003S000107MS	Soil
003S000107MSD	Soil

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INTRODUCTION

This data review report covers 15 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of single component analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/09/95 18:06	NSTD-250/RTX-35	Mevinphos, alpha	32.3	< 20%	003S000101	J(detects)/UJ(Non-detects)
	NSTD-500/RTX-35	Guthion	82.2	< 20%	003S000107	None (confirmation only)
	NSTD-1000/RTX-35	Coumaphos	35.2	< 20%	003S000114	J(detects)/UJ(Non-detects)
	NSTD-2000/RTX-35				003S000201	
	NSTD-4000/RTX-35				003S000208	
					003S000214	
					003C000214	
02/09/95 18:06	NSTD-250/RTX-5	Dichlorvos	25.6	< 20%	003S000101	None (confirmation only)
	NSTD-500/RTX-5	Mevinphos, alpha	34.7	< 20%	003S000107	None (confirmation only)
	NSTD-1000/RTX-5	Ethoprop	25.7	< 20%	003S000114	None (confirmation only)
	NSTD-2000/RTX-5	Naled	21.8	< 20%	003S000201	J(detects)/UJ(Non-detects)
	NSTD-4000/RTX-5	Demeton, s	39.5	< 20%	003S000208	None (confirmation only)
		Merphos	51.0	< 20%	003S000214	None (confirmation only)
		Fensulfothion	35.6	< 20%	003C000214	None (confirmation only)
		Stirophos	46.3	< 20%		None (confirmation only)
		Guthion	23.6	< 20%		J(detects)/UJ(Non-detects)
		Coumaphos	27.5	< 20%		None (confirmation only)
02/13/95 20:45	NSTD-250/RTX-35	Mevinphos alpha	24.8	< 20%	003S000401	J(detects)/UJ(Non-detects)
	NSTD-500/RTX-35	Demeton, o	26.3	< 20%	003S000407	J(detects)/UJ(Non-detects)
	NSTD-1000/RTX-35	Fensulfothion	35.9	< 20%	003S000412	J(detects)/UJ(Non-detects)
	NSTD-2000/RTX-35	Stirophos	22.4	< 20%	003S000301	J(detects)/UJ(Non-detects)
	NSTD-4000/RTX-35	Guthion	72.4	< 20%	003S000307	None (confirmation only)
					003S000311	
02/13/95 20:45	NSTD-250/RTX-5	Naled	43.5	< 20%	003S000401	J(detects)/UJ(Non-detects)
	NSTD-500/RTX-5	Merphos	42.6	< 20%	003S000407	None (confirmation only)
	NSTD-1000/RTX-5	Fensulfothion	31.9	< 20%	003S000412	None (confirmation only)
	NSTD-2000/RTX-5	Guthion	40.5	< 20%	003S000301	J(detects)/UJ(Non-detects)
	NSTD-4000/RTX-5	Mevinphos, alpha	21.3	< 20%	003S000307	None (confirmation only)
		Stirophos	20.3	< 20%	003S000311	None (confirmation only)
		Coumaphos	20.2	< 20%		None (confirmation only)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/10/95 18:26	1000NG/ML / RTX-35	Dichlorvos	-42.0 (≤ ±15%)	003S000101	J(detects)/UJ(non-detects)
		Mevinphos, alpha	-52.8 (≤ ±15%)	003S000107	J(detects)/UJ(non-detects)
		Demeton, o	-67.9 (≤ ±15%)	003S000114	J(detects)/UJ(non-detects)
		Ethoprop	-19.9 (≤ ±15%)	003S000201	J(detects)/UJ(non-detects)
		Demeton, s	28.2 (≤ ±15%)	003S000208	J(detects)/UJ(non-detects)
		Fensulfothion	43.6 (≤ ±15%)	003S000214	J(detects)/UJ(non-detects)
		Guthion	-37.5 (≤ ±15%)	003C000214	None (confirmation only)
		Coumaphos	-36.9 (≤ ±15%)		J(detects)/UJ(non-detects)
02/10/95 18:26	1000NG/ML / RTX-5	Dichlorvos	-28.0 (≤ ±15%)	003S000101	None (confirmation only)
		Mevinphos, alpha	-49.2 (≤ ±15%)	003S000107	None (confirmation only)
		Demeton, o	-23.9 (≤ ±15%)	003S000114	None (confirmation only)
		Ethoprop	-19.3 (≤ ±15%)	003S000201	None (confirmation only)
		Naled	60.5 (≤ ±15%)	003S000208	J(detect)/UJ(non-detect)
		Demeton, s	-43.9 (≤ ±15%)	003S000214	None (confirmation only)
		Methyl parathion	-15.1 (≤ ±15%)	003C000214	None (confirmation only)
		Ronnel	-20.4 (≤ ±15%)		None (confirmation only)
		Merphos	-21.1 (≤ ±15%)		None (confirmation only)
		Fensulfothion	-66.2 (≤ ±15%)		None (confirmation only)
		Stirophos	-56.5 (≤ ±15%)		None (confirmation only)
		Sulprofos	-16.9 (≤ ±15%)		None (confirmation only)
		Guthion	-99.2 (≤ ±15%)		J(detect)/UJ(non-detect)
		Coumaphos	-23.3 (≤ ±15%)		None (confirmation only)
02/14/95 13:38	1000NG/ML / RTX-35	Mevinphos, alpha	16.2 (≤ ±15%)	003S000401	J(detects)/UJ(non-detects)
		Demeton, o	-60.1 (≤ ±15%)	003S000407	J(detects)/UJ(non-detects)
		Phorate	-22.3 (≤ ±15%)	003S000412	None (confirmation only)
		Chloropyrifos	-17.1 (≤ ±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	22.2 (≤ ±15%)		J(detects)/UJ(non-detects)
		Guthion	20.8 (≤ ±15%)		None (confirmation only)
02/14/95 13:38	1000NG/ML / RTX-5	Dichlorvos	45.0 (≤ ±15%)	003S000401	None (confirmation only)
		Mevinphos, alpha	48.2 (≤ ±15%)	003S000407	None (confirmation only)
		Demeton, o	37.0 (≤ ±15%)	003S000412	None (confirmation only)
		Ethoprop	48.1 (≤ ±15%)		None (confirmation only)
		Phorate	43.6 (≤ ±15%)		J(detect)/UJ(non-detect)
		Demeton, s	38.5 (≤ ±15%)		None (confirmation only)
		Diazinon	47.7 (≤ ±15%)		None (confirmation only)
		Disulfoton	46.0 (≤ ±15%)		None (confirmation only)
		Methyl parathion	45.9 (≤ ±15%)		None (confirmation only)
		Ronnel	35.1 (≤ ±15%)		None (confirmation only)
		Fenthion	49.5 (≤ ±15%)		None (confirmation only)
		Chloropyrifos	40.0 (≤ ±15%)		None (confirmation only)
		Trichloronate	31.0 (≤ ±15%)		None (confirmation only)
		Tokuthion	49.0 (≤ ±15%)		None (confirmation only)
		Fensulfothion	65.8 (≤ ±15%)		None (confirmation only)
		Stirophos	45.1 (≤ ±15%)		None (confirmation only)
		Sulprofos	44.0 (≤ ±15%)		None (confirmation only)
		Guthion	48.9 (≤ ±15%)		J(detect)/UJ(non-detect)
		Coumaphos	52.6 (≤ ±15%)		None (confirmation only)

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/15/95 22:55	1000NG/ML / RTX-35	Dichlorvos	-207.2 (≤ ±15%)	003S000301	J(detects)/UJ(non-detects)
		Mevinphos, alpha	-161.8 (≤ ±15%)	003S000307	J(detects)/UJ(non-detects)
		Demeton, o	-94.5 (≤ ±15%)	003S000311	J(detects)/UJ(non-detects)
		Phorate	-90.4 (≤ ±15%)		None (confirmation only)
		Demeton, s	-73.0 (≤ ±15%)		J(detects)/UJ(non-detects)
		Diazinon	-46.0 (≤ ±15%)		J(detects)/UJ(non-detects)
		Disulfoton	-30.5 (≤ ±15%)		J(detects)/UJ(non-detects)
		Methyl parathion	-95.9 (≤ ±15%)		J(detects)/UJ(non-detects)
		Ronnel	-48.3 (≤ ±15%)		J(detects)/UJ(non-detects)
		Fenthion	-57.0 (≤ ±15%)		J(detects)/UJ(non-detects)
		Chloropyrifos	-122.3 (≤ ±15%)		J(detects)/UJ(non-detects)
		Trichloronate	67.5 (≤ ±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	-46.5 (≤ ±15%)		J(detects)/UJ(non-detects)
		Stirophos	-180.9 (≤ ±15%)		J(detects)/UJ(non-detects)
		Guthion	-57.4 (≤ ±15%)		None (confirmation only)
		Coumaphos	-53.9 (≤ ±15%)		J(detects)/UJ(non-detects)
02/15/95 22:55	1000NG/ML / RTX-5	Dichlorvos	68.0 (≤ ±15%)	003S000301	None (confirmation only)
		Mevinphos, alpha	68.2 (≤ ±15%)	003S000307	None (confirmation only)
		Demeton, o	64.3 (≤ ±15%)	003S000311	None (confirmation only)
		Ethoprop	69.6 (≤ ±15%)		None (confirmation only)
		Naled	43.1 (≤ ±15%)		J(detects)/UJ(non-detects)
		Phorate	66.9 (≤ ±15%)		J(detects)/UJ(non-detects)
		Demeton, s	62.0 (≤ ±15%)		None (confirmation only)
		Diazinon	67.4 (≤ ±15%)		None (confirmation only)
		Disulfoton	68.3 (≤ ±15%)		None (confirmation only)
		Methyl parathion	67.4 (≤ ±15%)		None (confirmation only)
		Ronnel	63.7 (≤ ±15%)		None (confirmation only)
		Fenthion	69.8 (≤ ±15%)		None (confirmation only)
		Chloropyrifos	65.5 (≤ ±15%)		None (confirmation only)
		Trichloronate	67.5 (≤ ±15%)		None (confirmation only)
		Tokuthion	70.4 (≤ ±15%)		None (confirmation only)
		Fensulfothion	78.9 (≤ ±15%)		None (confirmation only)
		Stirophos	72.0 (≤ ±15%)		None (confirmation only)
		Sulprofos	69.0 (≤ ±15%)		None (confirmation only)
		Guthion	61.2 (≤ ±15%)		J(detects)/UJ(non-detects)
		Coumaphos	71.4 (≤ ±15%)		None (confirmation only)
02/16/95 21:25	1000NG/ML / RTX-35	Dichlorvos	-502.7 (≤ ±15%)	003S000301	J(detects)/UJ(non-detects)
		Mevinphos, alpha	-416.1 (≤ ±15%)	003S000307	J(detects)/UJ(non-detects)
		Demeton, o	-289.9 (≤ ±15%)	003S000311	J(detects)/UJ(non-detects)
		Ethoprop	-57.6 (≤ ±15%)		J(detects)/UJ(non-detects)
		Phorate	-202.9 (≤ ±15%)		None (confirmation only)
		Demeton, s	-181.0 (≤ ±15%)		J(detects)/UJ(non-detects)
		Diazinon	-135.7 (≤ ±15%)		J(detects)/UJ(non-detects)
		Disulfoton	-110.7 (≤ ±15%)		J(detects)/UJ(non-detects)
		Methyl parathion	-220.4 (≤ ±15%)		J(detects)/UJ(non-detects)
		Ronnel	-134.9 (≤ ±15%)		J(detects)/UJ(non-detects)
		Fenthion	-146.6 (≤ ±15%)		J(detects)/UJ(non-detects)
		Chloropyrifos	-131.9 (≤ ±15%)		J(detects)/UJ(non-detects)
		Trichloronate	-39.0 (≤ ±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	-150.3 (≤ ±15%)		J(detects)/UJ(non-detects)
		Stirophos	-411.7 (≤ ±15%)		J(detects)/UJ(non-detects)
		Guthion	-193.7 (≤ ±15%)		None (confirmation only)
		Coumaphos	-137.9 (≤ ±15%)		J(detects)/UJ(non-detects)

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/16/95 21:25	1000NG/ML / RTX-5	Dichlorvos	33.8 (≤ ±15%)	003S000301	None (confirmation only)
		Mevinphos, alpha	41.3 (≤ ±15%)	003S000307	None (confirmation only)
		Demeton, o	29.1 (≤ ±15%)	003S000311	None (confirmation only)
		Ethoprop	39.4 (≤ ±15%)		None (confirmation only)
		Naled	39.8 (≤ ±15%)		J(detects)/UJ(non-detects)
		Phorate	37.4 (≤ ±15%)		J(detects)/UJ(non-detects)
		Demeton, s	37.3 (≤ ±15%)		None (confirmation only)
		Diazinon	42.8 (≤ ±15%)		None (confirmation only)
		Disulfoton	40.6 (≤ ±15%)		None (confirmation only)
		Methyl parathion	39.8 (≤ ±15%)		None (confirmation only)
		Ronnel	42.4 (≤ ±15%)		None (confirmation only)
		Fenthion	40.4 (≤ ±15%)		None (confirmation only)
		Chloropyrifos	39.9 (≤ ±15%)		None (confirmation only)
		Trichloronate	33.5 (≤ ±15%)		None (confirmation only)
		Merphos	-30.3 (≤ ±15%)		None (confirmation only)
		Tokuthion	42.3 (≤ ±15%)		None (confirmation only)
		Fensulfothion	38.4 (≤ ±15%)		None (confirmation only)
		Stirophos	39.1 (≤ ±15%)		None (confirmation only)
		Sulprofos	44.9 (≤ ±15%)		None (confirmation only)
		Guthion	29.4 (≤ ±15%)		J(detects)/UJ(non-detects)
		Coumaphos	44.7 (≤ ±15%)		None (confirmation only)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
003S000107	RTX-35	Demeton, o	357 (50-150%)	405 (50-150%)		J(detects)/None(non-detects)
		Demeton, s	23 (50-150%)	24 (50-150%)		J(detects)/UJ(non-detects)
		Merphos	26 (50-150%)	43 (50-150%)	48 (≤25%)	J(detects)/UJ(non-detects)
		Fensulfothion	200 (50-150%)	193 (50-150%)		J(detects)/UJ(non-detects)
003S000107	RTX-5	Mevinphos, alpha	171 (50-150%)	169 (50-150%)		None (confirmation only)
		Demeton, o	405 (50-150%)	405 (50-150%)		None (confirmation only)
		Naled	0 (50-150%)	0 (50-150%)		J(detects)/R(non-detects)
		Demeton, s	33 (50-150%)	33 (50-150%)		None (confirmation only)
		Merphos	0 (50-150%)	0 (50-150%)		None (confirmation only)
		Fensulfothion	179 (50-150%)	167 (50-150%)		None (confirmation only)
		Guthion	286 (50-150%)	262 (50-150%)		J(detects)/None(non-detects)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
02/10/95	OPLCS01315	RTX-35	Demeton, o	318.6 (50-150%)		003S000101	J(detects)/None(non-detects)
			Demeton, s	23.6 (50-150%)		003S000107	J(detects)/UJ(non-detects)
			Merphos	0.0 (50-150%)	0.00 (37.35-37.50)	003S000114	J(detects)/R(non-detects)
			Fensulfothion	187.1 (50-150%)		003S000201	J(detects)/None(non-detects)
						003S000208	
						003S000214	
						003C000214	
02/10/95	OPLCS01315	RTX-5	Mevinphos, alpha	215.0 (50-150%)		003S000101	None (confirmation only)
			Demeton, o	465.2 (50-150%)		003S000107	None (confirmation only)
			Naled	35.2 (50-150%)		003S000114	J(detects)/UJ(non-detects)
			Demeton, s	32.5 (50-150%)		003S000201	None (confirmation only)
			Merphos	0.0 (50-150%)	0.00 (32.61-32.81)	003S000208	None (confirmation only)
						003S000214	
						003C000214	
02/16/95	OPLCS01201A	RTX-5	Dichlorvos	22.2 (50-150%)		003S000301	None (confirmation only)
			Mevinphos, alpha	22.2 (50-150%)		003S000307	None (confirmation only)
			Ethoprop	19.4 (50-150%)		003S000311	None (confirmation only)
			Naled	45.1 (50-150%)			J(detects)/UJ(non-detects)
			Phorate	18.4 (50-150%)			J(detects)/UJ(non-detects)
			Demeton, s	4.4 (50-150%)			None (confirmation only)
			Diazinon	21.8 (50-150%)			None (confirmation only)
			Disulfoton	20.1 (50-150%)			None (confirmation only)
			Methyl parathion	22.7 (50-150%)			None (confirmation only)
			Ronnel	23.0 (50-150%)			None (confirmation only)
			Fenthion	18.2 (50-150%)			None (confirmation only)
			Chloropyrifos	25.3 (50-150%)			None (confirmation only)
			Trichloronate	23.3 (50-150%)			None (confirmation only)
			Merphos	13.7 (50-150%)			None (confirmation only)
			Tokuthion	19.0 (50-150%)			None (confirmation only)
			Fensulfothion	28.8 (50-150%)			None (confirmation only)
			Stirophos	21.0 (50-150%)			None (confirmation only)
			Sulprofos	20.8 (50-150%)			None (confirmation only)
			Guthion	26.3 (50-150%)			J(detects)/UJ(non-detects)
			Coumaphos	19.8 (50-150%)			None (confirmation only)
02/16/95	OPLCS01201A	RTX-35	Dichlorvos	268.9 (50-150%)		003S000301	J(detects)/None(non-detects)
			Mevinphos, alpha	243.7 (50-150%)		003S000307	J(detects)/None(non-detects)
			Demeton, o	845.4 (50-150%)		003S000311	J(detects)/None(non-detects)
			Naled	0.0 (50-150%)			None (confirmation only)
			Demeton, s	22.8 (50-150%)			J(detects)/UJ(non-detects)
			Methyl parathion	171.0 (50-150%)			J(detects)/None(non-detects)
			Chloropyrifos	154.3 (50-150%)			J(detects)/None(non-detects)
			Merphos	36.8 (50-150%)			J(detects)/UJ(non-detects)
			Fensulfothion	226.3 (50-150%)			J(detects)/None(non-detects)
			Stirophos	247.5 (50-150%)			J(detects)/None(non-detects)
			Guthion	122.3 (50-150%)			None (confirmation only)
02/14/95	OPLCS01203S	RTX-5	Chloropyrifos	0.0 (50-150%)	0.00 (30.48-30.6)	003S000401	None (confirmation only)
			Merphos	0.0 (50-150%)	0.00 (32.77-32.97)	003S000407	None (confirmation only)
						003S000412	
02/14/95	OPLCS01203S	RTX-35	Naled	4.1 (50-150%)		003S000401	None (confirmation only)
			Merphos	12.0 (50-150%)	0.00 (32.77-32.97)	003S000407	J(detects)/R(non-detects)
						003S000412	

IX. ESTERIFICATION SPIKE SAMPLE

No esterification spike samples were analyzed for this SDG.

INTRODUCTION

This data review report covers 3 soil samples listed on the cover page. The analyses were per EPA Method 365.3 (Total Phosphorus), Method 351.2 (Total Kjeldahl Nitrogen Analysis), Method 353.2 (N as Nitrate, N as Nitrite Analysis) in "Method for Chemical Analysis of Water and Wastes," EPA 600/4-79/020, Revised March 1983, and Modified 9081 for Cation Exchange Capacity and Modified 9060 for Total Organic Carbon in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

IV. BLANKS

The method blank analyses were performed at required frequencies.

No contaminant was found in the method blank(s).

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Parameter	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Flag
003SDESIGN	Total Phosphorus	47.4 (75-125%)	NA	NA	J

VI. LABORATORY CONTROL SAMPLES

Not applicable.

VII. QUANTITATION AND REPORTED CRQLs

No raw data reviewed.

VIII. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

General Inorganic Data Qualification Summary - Case Nº FD1311

Case Nº	Sample ID	Parameter	Flag	Reason
FD1311	003SDESIGN	Total Phosphorus	J	Matrix spike %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.000209, 95.000210, 95.000236, 95.000239, 95.000253, and 95.000254 (Level III Validation)
SDG Nº:	FD1311

Sample Identification	Matrix
003E012695	Water
003P012695	Water
003F012795	Water
003S000101	Soil
003S000107	Soil
003S000114	Soil
003S000201	Soil
003S000208	Soil
003S000214	Soil
003C000214	Soil
003S000301	Soil
003S000307	Soil
003S000311	Soil
003S000401	Soil
003S000407	Soil
003S000412	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 13 soil samples and 3 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within $\pm$15.0 percent.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s).

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s).

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference cannot be evaluated since the true values were not reported.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1311

No data were qualified for this SDG.

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311 HERB						
SAMPLE ID ------->	003-S-0001-01	003-S-0001-07	003-S-0001-14	003-S-0002-01	003-S-0002-08	003-S-0002-14
ORIGINAL ID ----->	003S000101	003S000107	003S000114	003S000201	003S000208	003S000214
LAB SAMPLE ID --->	115759	115760	115761	115762	115763	115764
SAMPLE DATE ----->	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95
DATE EXTRACTED -->	01/31/95	01/31/95	01/31/95	02/03/95	01/31/95	02/03/95
DATE ANALYZED --->	02/10/95	02/10/95	02/10/95	02/16/95	02/10/95	02/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
94-82-6 2,4-DB	9.5 UJ	9.5 UJ	9.5 U	9.5 U	9.5 U	9.5 U
88-85-7 Dinoseb	4.7 UJ	4.7 UJ	4.7 UJ	4.7 UJ	4.7 UJ	4.7 UJ
93-76-5 2,4,5-T	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
93-72-1 2,4,5-TP (Silvex)	0.95 UJ	0.95 UJ	0.95 UJ	0.95 UJ	0.95 UJ	0.95 UJ
75-99-0 Dalapon	23. U	23. UR	23. U	23. U	23. U	23. U
1918-00-9 Dicamba	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U
120-36-5 Dichlorprop	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U
94-74-6 MCPA	940. UJ	940. UJ	940. UJ	940. UJ	940. UJ	940. UJ
93-65-2 MCPP	940. UJ	940. UR	940. UJ	940. UJ	940. UJ	940. UJ
94-75-7 2,4-D	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U	9.4 U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311 HERB													
	SAMPLE ID ------->	003-C-0002-14		003-S-0003-01		003-S-0003-07		003-S-0003-11		003-S-0004-01		003-S-0004-07	
	ORIGINAL ID ----->	003C000214		003S000301		003S000307		003S000311		003S000401		003S000407	
	LAB SAMPLE ID --->	115765		115846		115847		115848		115928		115929	
	SAMPLE DATE ----->	01/25/95		01/25/95		01/25/95		01/25/95		01/27/95		01/27/95	
	DATE EXTRACTED -->	01/31/95		02/03/95		02/03/95		01/31/95		02/16/95		02/16/95	
	DATE ANALYZED --->	02/10/95		02/17/95		02/17/95		02/16/95		02/17/95		02/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	U	9.5	U	9.5	U	9.5	U	11.	U	12.	U
88-85-7	Dinoseb	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	5.5	UJ	5.9	UJ
93-76-5	2,4,5-T	0.95	U	0.95	U	0.95	U	0.95	U	1.1	U	1.2	U
93-72-1	2,4,5-TP (Silvex)	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ	1.1	UJ	1.2	UJ
75-99-0	Dalapon	23.	U	23.	U	23.	U	23.	U	27.	U	28.	U
1918-00-9	Dicamba	9.4	U	0.94	U	0.94	U	0.94	U	1.1	U	1.2	U
120-36-5	Dichlorprop	9.4	U	9.4	U	9.4	U	9.4	U	11.	U	12.	U
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	940.	UJ	1100.	UJ	1200.	UJ
93-65-2	MCPP	940.	UJ	940.	UJ	940.	UJ	940.	UJ	1100.	UJ	1200.	UJ
94-75-7	2,4-D	9.4	U	9.4	U	9.4	U	9.4	U	11.	U	12.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311	SAMPLE ID ------->	003-S-0004-12					
HERB	ORIGINAL ID ----->	003S000412					
	LAB SAMPLE ID --->	115930					
	SAMPLE DATE ----->	01/27/95					
	DATE EXTRACTED -->	02/04/95					
	DATE ANALYZED --->	02/14/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG	A				
CAS #	Parameter						
94-82-6	2,4-DB	12.	U				
88-85-7	Dinoseb	23.	J				
93-76-5	2,4,5-T	1.2	U				
93-72-1	2,4,5-TP (Silvex)	1.2	UJ				
75-99-0	Dalapon	29.	U				
1918-00-9	Dicamba	1.2	U				
120-36-5	Dichlorprop	12.	U				
94-74-6	MCPA	1200.	UJ				
93-65-2	MCPP	1200.	UJ				
94-75-7	2,4-D	12.	U				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311	**SAMPLE ID -------->**	003-S-DESI-GN					
KJELDAHL	**ORIGINAL ID ----->**	003SDESIGN					
	LAB SAMPLE ID --->	115932					
	SAMPLE DATE ----->	01/27/95					
	DATE ANALYZED --->	02/07/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	MG/KG A					
CAS #	Parameter						
999-99-9	Kjeldahl Nitrogen-N	120.					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 METAL																			
	SAMPLE ID ------->	003-S-0001-01			003-S-0001-07			003-S-0001-14			003-S-0002-01			003-S-0002-08			003-S-0002-14		
	ORIGINAL ID ----->	003S000101			003S000107			003S000114			003S000201			003S000208			003S000214		
	LAB SAMPLE ID --->	0-115766S			0-115767S			0-115768S			0-115769S			0-115770S			0-115771S		
	SAMPLE DATE ----->	01/25/95			01/25/95			01/25/95			01/25/95			01/25/95			01/25/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A
CAS #	Parameter																		
SB	Antimony	10.1	UJ		12.2	UJ		10.5	UJ		10.7	UJ		13.8	UJ		11.2	UJ	
AS	Arsenic	9.1	J		3.9	J		6.5	J		10.8	J		10.9	J		8.6	J	
BA	Barium	125.			332.			298.			141.			152.			54.8		
BE	Beryllium	0.48	J		0.83	J		0.63	J		0.61	J		0.79	J		0.37	J	
CD	Cadmium	2.2	U		2.7	U		3.6			5.2			4.4			3.3	U	
CR	Chromium	10.			12.3			12.2			21.3			22.1			12.3		
CO	Cobalt	8.6	J		9.6	J		10.7	J		12.5	J		4.9	J		5.1	J	
CU	Copper	11.8			14.4			15.3			33.7			18.7			12.3		
PB	Lead	12.7	J		8.4	J		7.9	J		171.	J		9.6	J		8.5	J	
HG	Mercury	0.13	U		0.13	U		0.13	U		0.13	U		0.13	U		0.13	U	
NI	Nickel	6.7	U		12.7	U		18.6	U		14.2	U		13.9	U		8.9	U	
SE	Selenium	0.91	UJ		0.57	UJ		0.76	UJ		0.62	U		0.74	UJ		0.51	UJ	
AG	Silver	0.76	U		0.76	U		0.79	U		0.77	U		0.77	U		0.75	U	
TL	Thallium	0.51	U		0.51	U		0.52	U		0.51	U		0.51	U		0.5	U	
V	Vanadium	23.4			18.3			19.8			30.2			32.3			20.7		
ZN	Zinc	38.8			54.6			55.2			113.			55.3			43.7		
SN	Tin	5.4	U		9.4	U		8.8	U		9.8	U		8.	U		7.5	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 METAL																			
	SAMPLE ID ------->	003-C-0002-14		003-S-0003-01		003-S-0003-07		003-S-0003-11		003-S-0004-01		003-S-0004-07	
	ORIGINAL ID ----->	003C000214		003S000301		003S000307		003S000311		003S000401		003S000407	
	LAB SAMPLE ID --->	0-115772S		9-115854S		9-115855S		9-115856S		4-115933S		4-115934S	
	SAMPLE DATE ----->	01/25/95		01/26/95		01/26/95		01/26/95		01/27/95		01/27/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	10.1	UJ	9.9	UJ	10.4	UJ	10.3	UJ	10.8	UJ	11.1	UJ
AS	Arsenic	18.9	J	12.1	J	9.8	J	11.2	J	4.4	J	9.1	J
BA	Barium	42.9	J	110.		106.		127.		79.6		223.	
BE	Beryllium	0.34	J	0.59	J	0.61	J	0.5	J	0.27	J	0.68	J
CD	Cadmium	1.5	U	3.1	U	3.9		4.2		1.8	U	1.9	U
CR	Chromium	10.2		11.7		16.7		20.		5.3		14.9	
CO	Cobalt	5.	J	10.7	J	9.9	J	6.8	J	5.7	J	3.8	J
CU	Copper	13.9		20.5		15.5		13.9		8.1		12.2	
PB	Lead	8.9	J	13.2	J	10.6	J	11.8	J	7.4	J	14.7	J
HG	Mercury	0.13	U	0.12	U	0.13	U	0.13	U	0.12	U	0.14	U
NI	Nickel	8.9	U	13.2	U	10.6	U	10.8	U	3.7	U	7.4	U
SE	Selenium	0.98	U	0.89	U	1.2	U	1.1	U	0.9	U	0.9	U
AG	Silver	0.76	U	0.74	U	0.78	U	0.78	U	0.73	U	0.76	U
TL	Thallium	0.5	U	0.5	U	0.52	U	0.52	U	0.49	U	0.51	U
V	Vanadium	19.9		28.6		35.2		25.1		14.7		20.3	
ZN	Zinc	48.4		56.8		57.1		54.6		25.9		45.6	
SN	Tin	6.1	U	12.7	U	10.4	U	7.2	U	7.2	U	8.4	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311	SAMPLE ID ------->	003-S-0004-12					
METAL	ORIGINAL ID ----->	003S000412					
	LAB SAMPLE ID --->	4-115935S					
	SAMPLE DATE ----->	01/27/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	MG/KG	A				
CAS #	Parameter						
SB	Antimony	10.4	UJ				
AS	Arsenic	8.4	J				
BA	Barium	195.					
BE	Beryllium	0.53	J				
CD	Cadmium	3.5					
CR	Chromium	16.2					
CO	Cobalt	7.6	J				
CU	Copper	15.4					
PB	Lead	16.2	J				
HG	Mercury	0.13	U				
NI	Nickel	17.9	U				
SE	Selenium	0.96	U				
AG	Silver	3.4					
TL	Thallium	0.52	U				
V	Vanadium	22.					
ZN	Zinc	65.8					
SN	Tin	15.	U				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311 METAL-CN						
SAMPLE ID ------->	003-S-0001-01	003-S-0001-07	003-S-0001-14	003-S-0002-01	003-S-0002-08	003-S-0002-14
ORIGINAL ID ----->	003S000101	003S000107	003S000114	003S000201	003S000208	003S000214
LAB SAMPLE ID --->	115766	115767	115768	115769	115770	115771
SAMPLE DATE ----->	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95
DATE EXTRACTED -->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95
DATE ANALYZED --->	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.63 U	0.64 U	0.66 U	0.64 U	0.64 U	0.62 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 METAL-CN						
SAMPLE ID ------->	003-S-0003-01	003-S-0003-07	003-S-0003-11	003-S-0004-01	003-S-0004-07	003-S-0004-12
ORIGINAL ID ----->	003S000301	003S000307	003S000311	003S000401	003S000407	003S000412
LAB SAMPLE ID --->	115854	115855	115856	115933	115934	115935
SAMPLE DATE ----->	01/25/95	01/25/95	01/25/95	01/27/95	01/27/95	01/27/95
DATE EXTRACTED -->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95
DATE ANALYZED --->	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.62 U	0.65 U	0.65 U	0.61 U	0.64 U	0.65 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311	**SAMPLE ID -------->**	003-S-DESI-GN					
NITRATE	**ORIGINAL ID ----->**	003SDESIGN					
	LAB SAMPLE ID --->	115932					
	SAMPLE DATE ----->	01/27/95					
	DATE EXTRACTED -->	02/03/95					
	DATE ANALYZED --->	02/06/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	MG/KG A					
CAS #	Parameter						
9999900-03-4	Nitrate-N	22.					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 OP PEST													
	SAMPLE ID ------->	003-S-0001-01		003-S-0001-07		003-S-0001-14		003-S-0002-01		003-S-0002-08		003-S-0002-14	
	ORIGINAL ID ----->	003S000101		003S000107		003S000114		003S000201		003S000208		003S000214	
	LAB SAMPLE ID --->	115759		115760		115761		115762		115763		115764	
	SAMPLE DATE ----->	01/25/95		01/25/95		01/25/95		01/25/95		01/25/95		01/25/95	
	DATE EXTRACTED -->	01/31/95		01/31/95		01/31/95		01/31/95		01/31/95		01/31/95	
	DATE ANALYZED --->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95		02/10/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ
35400-43-2	Sulprofos	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
2921-88-2	Chloropyrifos	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
56-72-4	Coumaphos	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ
8065-48-3	Demeton,O	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ
333-41-5	Diazinon	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
62-73-7	Dichlorvos	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ
298-04-4	Disulfoton	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
13194-48-4	Ethoprop	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ
115-90-2	Fensulfothion	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ
55-38-9	Fenthion	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
150-50-5	Merphos	100.	UR	100.	UR	98.	UR	110.	UR	110.	UR	100.	UR
7786-34-7	Mevinphos, Alpha	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ
300-76-5	Naled	410.	UJ	400.	UR	390.	UJ	430.	UJ	420.	UJ	410.	UJ
298-00-0	Methyl parathion	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
298-02-2	Phorate	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
299-84-3	Ronnel	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
34643-46-4	Tokuthion	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
327-98-0	Trichloronate	100.	U	100.	U	98.	U	110.	U	110.	U	100.	U
126-75-0	Demeton,S	100.	UJ	100.	UJ	98.	UJ	110.	UJ	110.	UJ	100.	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 OP PEST													
	SAMPLE ID ------->	003-C-0002-14		003-S-0003-01		003-S-0003-07		003-S-0003-11		003-S-0004-01		003-S-0004-07	
	ORIGINAL ID ----->	003C000214		003S000301		003S000307		003S000311		003S000401		003S000407	
	LAB SAMPLE ID --->	115765		115846		115847		115848		115928		115929	
	SAMPLE DATE ----->	01/25/95		01/25/95		01/25/95		01/25/95		01/27/95		01/27/95	
	DATE EXTRACTED -->	01/31/95		01/31/95		01/31/95		01/31/95		02/04/95		02/04/95	
	DATE ANALYZED --->	02/10/95		02/16/95		02/16/95		02/16/95		02/14/95		02/14/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	UJ	110.	UJ
35400-43-2	Sulprofos	100.	U	100.	U	110.	U	110.	U	95.	U	110.	U
2921-88-2	Chloropyrifos	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	UJ	110.	UJ
56-72-4	Coumaphos	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
8065-48-3	Demeton,O	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	UJ	110.	UJ
333-41-5	Diazinon	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
62-73-7	Dichlorvos	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
298-04-4	Disulfoton	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
13194-48-4	Ethoprop	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
115-90-2	Fensulfothion	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	UJ	110.	UJ
55-38-9	Fenthion	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
150-50-5	Merphos	100.	UR	100.	UJ	110.	UJ	110.	UJ	95.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	UJ	110.	UJ
300-76-5	Naled	410.	UJ	420.	UJ	420.	UJ	430.	UJ	380.	UJ	440.	UJ
298-00-0	Methyl parathion	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
298-02-2	Phorate	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	UJ	110.	UJ
299-84-3	Ronnel	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	UJ	110.	UJ
34643-46-4	Tokuthion	100.	U	100.	U	110.	U	110.	U	95.	U	110.	U
327-98-0	Trichloronate	100.	U	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U
126-75-0	Demeton,S	100.	UJ	100.	UJ	110.	UJ	110.	UJ	95.	U	110.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311	SAMPLE ID ------->	003-S-0004-12	
OP PEST	ORIGINAL ID ----->	003S000412	
	LAB SAMPLE ID --->	115930	
	SAMPLE DATE ----->	01/27/95	
	DATE EXTRACTED -->	02/04/95	
	DATE ANALYZED --->	02/14/95	
	MATRIX ---------->	Soil	
	UNITS ---------->	UG/KG	A

CAS #	Parameter		
86-50-0	Guthion	100.	UJ
35400-43-2	Sulprofos	100.	U
2921-88-2	Chloropyrifos	100.	UJ
56-72-4	Coumaphos	100.	U
8065-48-3	Demeton,O	100.	UJ
333-41-5	Diazinon	100.	U
62-73-7	Dichlorvos	100.	U
298-04-4	Disulfoton	100.	U
13194-48-4	Ethoprop	100.	U
115-90-2	Fensulfothion	100.	UJ
55-38-9	Fenthion	100.	U
150-50-5	Merphos	100.	UR
7786-34-7	Mevinphos, Alpha	100.	UJ
300-76-5	Naled	420.	UJ
298-00-0	Methyl parathion	100.	U
298-02-2	Phorate	100.	UJ
299-84-3	Ronnel	100.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	UJ
34643-46-4	Tokuthion	100.	U
327-98-0	Trichloronate	100.	U
126-75-0	Demeton,S	100.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 PEST						
SAMPLE ID ------->	003-S-0001-01	003-S-0001-07	003-S-0001-14	003-S-0002-01	003-S-0002-08	003-S-0002-14
ORIGINAL ID ----->	003S000101	003S000107	003S000114	003S000201	003S000208	003S000214
LAB SAMPLE ID --->	115766	115767	115768	115769	115770	115771
SAMPLE DATE ----->	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95
DATE EXTRACTED -->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95
DATE ANALYZED --->	02/08/95	02/08/95	02/09/95	02/09/95	02/09/95	02/09/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
319-84-6 alpha-BHC	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
319-85-7 beta-BHC	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
319-86-8 delta-BHC	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
58-89-9 gamma-BHC (Lindane)	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
76-44-8 Heptachlor	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
309-00-2 Aldrin	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
1024-57-3 Heptachlor epoxide	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
959-98-8 Endosulfan I	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
60-57-1 Dieldrin	4.1 U	4.2 U	4.2 U	14.	4.1 U	3. U
72-55-9 4,4'-DDE	4.1 U	4.2 U	4.2 U	4.1 U	4.1 U	3. U
72-20-8 Endrin	4.1 U	4.2 U	4.2 U	4.1 U	4.1 U	3. U
33213-65-9 Endosulfan II	4.1 U	4.2 U	4.2 U	4.1 U	4.1 UJ	3. UJ
72-54-8 4,4'-DDD	4.1 U	4.2 U	4.2 U	4.1 U	4.1 U	3. U
1031-07-8 Endosulfan sulfate	4.1 U	4.2 U	4.2 U	4.1 U	4.1 U	3. U
50-29-3 4,4'-DDT	4.1 U	4.2 U	4.2 U	4.1 U	4.1 U	3. U
72-43-5 Methoxychlor	21. U	21. U	22. U	21. U	21. U	16. U
53494-70-5 Endrin ketone	4.1 U	4.2 U	4.2 U	4.1 U	4.1 U	3. U
7421-36-3 Endrin aldehyde	4.1 U	4.2 U	4.2 U	4.1 U	4.1 U	3. U
5103-71-9 alpha-Chlordane	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
5103-74-2 gamma-Chlordane	2.1 U	2.1 U	2.2 U	2.1 U	2.1 U	1.6 U
8001-35-2 Toxaphene	41. U	42. U	42. U	41. U	41. U	30. U
12674-11-2 Aroclor-1016	41. U	42. U	42. U	41. U	41. U	30. U
11104-28-2 Aroclor-1221	41. U	42. U	42. U	41. U	41. U	30. U
11141-16-5 Aroclor-1232	41. U	42. U	42. U	41. U	41. U	30. U
53469-21-9 Aroclor-1242	41. U	42. U	42. U	41. U	41. U	30. U
12672-29-6 Aroclor-1248	41. U	42. U	42. U	41. U	41. U	30. U
11097-69-1 Aroclor-1254	41. U	42. U	42. U	41. U	41. U	30. U
11096-82-5 Aroclor-1260	41. U	42. U	42. U	41. U	41. U	30. U

*** Validation Complete ***

FD1311
PEST

	SAMPLE ID ------->	003-C-0002-14		003-S-0003-01		003-S-0003-07		003-S-0003-11		003-S-0004-01		003-S-0004-07	
	ORIGINAL ID ----->	003C000214		003S000301		003S000307		003S000311		003S000401		003S000407	
	LAB SAMPLE ID --->	115772		115854		115855		115856		115933		115934	
	SAMPLE DATE ----->	01/25/95		01/26/95		01/26/95		01/26/95		01/27/95		01/27/95	
	DATE EXTRACTED -->	02/01/95		02/01/95		02/01/95		02/01/95		02/07/95		02/07/95	
	DATE ANALYZED --->	02/09/95		02/09/95		02/09/95		02/09/95		02/17/95		02/16/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
319-85-7	beta-BHC	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
319-86-8	delta-BHC	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
58-89-9	gamma-BHC (Lindane)	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
76-44-8	Heptachlor	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
309-00-2	Aldrin	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
1024-57-3	Heptachlor epoxide	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
959-98-8	Endosulfan I	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
60-57-1	Dieldrin	4.1	U	4.	U	4.2	U	4.3	U	4.1	U	4.2	U
72-55-9	4,4'-DDE	4.1	U	4.	U	4.2	U	4.3	U	6.1		4.2	U
72-20-8	Endrin	4.1	U	4.	U	4.2	U	4.3	U	4.1	U	4.2	UJ
33213-65-9	Endosulfan II	4.1	U	4.	UJ	4.2	UJ	4.3	UJ	4.1	UJ	4.2	UJ
72-54-8	4,4'-DDD	4.1	U	4.	U	4.2	U	4.3	U	4.5		4.2	U
1031-07-8	Endosulfan sulfate	4.1	U	4.	U	4.2	U	4.3	U	4.1	U	4.2	U
50-29-3	4,4'-DDT	4.1	U	4.	U	4.2	U	4.3	U	4.1	U	4.2	U
72-43-5	Methoxychlor	21.	U	21.	U	22.	U	22.	U	21.	U	22.	U
53494-70-5	Endrin ketone	4.1	U	4.	U	4.2	U	4.3	U	4.1	U	4.2	U
7421-36-3	Endrin aldehyde	4.1	U	4.	U	4.2	U	4.3	U	4.1	U	4.2	U
5103-71-9	alpha-Chlordane	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
5103-74-2	gamma-Chlordane	2.1	U	2.1	U	2.2	U	2.2	U	2.1	U	2.2	U
8001-35-2	Toxaphene	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U
12674-11-2	Aroclor-1016	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U
11104-28-2	Aroclor-1221	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U
11141-16-5	Aroclor-1232	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U
53469-21-9	Aroclor-1242	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U
12672-29-6	Aroclor-1248	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U
11097-69-1	Aroclor-1254	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U
11096-82-5	Aroclor-1260	41.	U	40.	U	42.	U	43.	U	41.	U	42.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311	SAMPLE ID ------->	003-S-0004-12	
PEST	ORIGINAL ID ----->	003S000412	
	LAB SAMPLE ID --->	115935	
	SAMPLE DATE ----->	01/27/95	
	DATE EXTRACTED -->	02/07/95	
	DATE ANALYZED --->	02/16/95	
	MATRIX ---------->	Soil	
	UNITS ---------->	UG/KG	A

CAS #	Parameter		
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	UJ
33213-65-9	Endosulfan II	4.2	UJ
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22.	U
53494-70-5	Endrin ketone	4.2	U
7421-36-3	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	42.	U
12674-11-2	Aroclor-1016	42.	U
11104-28-2	Aroclor-1221	42.	U
11141-16-5	Aroclor-1232	42.	U
53469-21-9	Aroclor-1242	42.	U
12672-29-6	Aroclor-1248	42.	U
11097-69-1	Aroclor-1254	42.	U
11096-82-5	Aroclor-1260	42.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 SVOA													
	SAMPLE ID ------->	003-S-0001-01		003-S-0001-07		003-S-0001-14		003-S-0002-01		003-S-0002-08		003-S-0002-14	
	ORIGINAL ID ----->	003S000101		003S000107		003S000114		003S000201		003S000208		003S000214	
	LAB SAMPLE ID --->	115766		115767		115768		115769		115770		115771	
	SAMPLE DATE ----->	01/25/95		01/25/95		01/25/95		01/25/95		01/25/95		01/25/95	
	DATE EXTRACTED -->	01/30/95		01/30/95		01/30/95		01/30/95		01/30/95		01/30/95	
	DATE ANALYZED --->	02/08/95		02/08/95		02/08/95		02/08/95		02/08/95		02/08/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
67-72-1	Hexachloroethane	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
78-59-1	Isophorone	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
88-75-5	2-Nitrophenol	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
105-67-9	2,4-Dimethylphenol	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
111-91-1	bis(2-Chloroethoxy)methane	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
120-83-2	2,4-Dichlorophenol	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
120-82-1	1,2,4-Trichlorobenzene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
91-20-3	Naphthalene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
106-47-8	4-Chloroaniline	400.	UJ	400.	UJ	420.	UJ	420.	UJ	400.	UJ	410.	UJ
87-68-3	Hexachlorobutadiene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
59-50-7	4-Chloro-3-methylphenol	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
91-57-6	2-Methylnaphthalene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
77-47-4	Hexachlorocyclopentadiene	400.	UJ	400.	UJ	420.	UJ	420.	UJ	400.	UJ	410.	UJ
88-06-2	2,4,6-Trichlorophenol	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
95-95-4	2,4,5-Trichlorophenol	970.	U	980.	U	1000.	U	1000.	U	980.	U	1000.	U
91-58-7	2-Chloronaphthalene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
88-74-4	2-Nitroaniline	970.	U	980.	U	1000.	U	1000.	U	980.	U	1000.	U
131-11-3	Dimethylphthalate	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
208-96-8	Acenaphthylene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
606-20-2	2,6-Dinitrotoluene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
99-09-2	3-Nitroaniline	970.	U	980.	U	1000.	U	1000.	U	980.	U	1000.	U
83-32-9	Acenaphthene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
51-28-5	2,4-Dinitrophenol	970.	UJ	980.	UJ	1000.	UJ	1000.	UJ	980.	UJ	1000.	UJ
100-02-7	4-Nitrophenol	970.	U	980.	U	1000.	U	1000.	U	980.	U	1000.	U
132-64-9	Dibenzofuran	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
121-14-2	2,4-Dinitrotoluene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
84-66-2	Diethylphthalate	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
7005-72-3	4-Chlorophenylphenylether	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
86-73-7	Fluorene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
100-01-6	4-Nitroaniline	970.	UJ	980.	UJ	1000.	UJ	1000.	UJ	980.	UJ	1000.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	970.	U	980.	U	1000.	U	1000.	U	980.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	400.	UJ	400.	UJ	420.	UJ	420.	UJ	400.	UJ	410.	UJ
101-55-3	4-Bromophenylphenylether	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
118-74-1	Hexachlorobenzene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
87-86-5	Pentachlorophenol	970.	U	980.	U	1000.	U	1000.	U	980.	U	1000.	U
85-01-8	Phenanthrene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 SVOA													
	SAMPLE ID ------->	003-S-0001-01		003-S-0001-07		003-S-0001-14		003-S-0002-01		003-S-0002-08		003-S-0002-14	
	ORIGINAL ID ----->	003S000101		003S000107		003S000114		003S000201		003S000208		003S000214	
	LAB SAMPLE ID --->	115766		115767		115768		115769		115770		115771	
	SAMPLE DATE ----->	01/25/95		01/25/95		01/25/95		01/25/95		01/25/95		01/25/95	
	DATE EXTRACTED -->	01/30/95		01/30/95		01/30/95		01/30/95		01/30/95		01/30/95	
	DATE ANALYZED --->	02/08/95		02/08/95		02/08/95		02/08/95		02/08/95		02/08/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
86-74-8	Carbazole	400.	UJ	400.	UJ	420.	UJ	420.	UJ	400.	UJ	410.	UJ
84-74-2	Di-n-butylphthalate	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
206-44-0	Fluoranthene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
129-00-0	Pyrene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
85-68-7	Butylbenzylphthalate	400.	U	400.	U	420.	U	67.	J	400.	U	410.	U
91-94-1	3,3'-Dichlorobenzidine	400.	UJ	400.	UJ	420.	UJ	420.	UJ	400.	UJ	410.	UJ
56-55-3	Benzo(a)anthracene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
218-01-9	Chrysene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	400.	UJ	400.	UJ	420.	UJ	420.	UJ	400.	UJ	410.	UJ
117-84-0	Di-n-octylphthalate	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
205-99-2	Benzo(b)fluoranthene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
207-08-9	Benzo(k)fluoranthene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
50-32-8	Benzo(a)pyrene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
193-39-5	Indeno(1,2,3-cd)pyrene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
53-70-3	Dibenzo(a,h)anthracene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
191-24-2	Benzo(g,h,i)perylene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
108-95-2	Phenol	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
111-44-4	bis(2-Chloroethyl)ether	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
95-57-8	2-Chlorophenol	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
541-73-1	1,3-Dichlorobenzene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
106-46-7	1,4-Dichlorobenzene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
95-50-1	1,2-Dichlorobenzene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
95-48-7	2-Methylphenol (o-Cresol)	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
106-44-5	4-Methylphenol (p-Cresol)	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U
98-95-3	Nitrobenzene	400.	U	400.	U	420.	U	420.	U	400.	U	410.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 SVOA	SAMPLE ID ------->	003-C-0002-14		003-S-0003-01		003-S-0003-07		003-S-0003-11		003-S-0004-01		003-S-0004-07	
	ORIGINAL ID ----->	003C000214		003S000301		003S000307		003S000311		003S000401		003S000407	
	LAB SAMPLE ID --->	115772		115854		115855		115856		115933		115934	
	SAMPLE DATE ----->	01/25/95		01/26/95		01/26/95		01/26/95		01/27/95		01/27/95	
	DATE EXTRACTED -->	01/30/95		01/30/95		01/30/95		01/30/95		01/30/95		01/30/95	
	DATE ANALYZED --->	02/08/95		02/08/95		02/08/95		02/09/95		02/09/95		02/09/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
67-72-1	Hexachloroethane	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
78-59-1	Isophorone	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
88-75-5	2-Nitrophenol	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
105-67-9	2,4-Dimethylphenol	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
111-91-1	bis(2-Chloroethoxy)methane	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
120-83-2	2,4-Dichlorophenol	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
91-20-3	Naphthalene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
106-47-8	4-Chloroaniline	410.	UJ	400.	UJ	430.	UJ	410.	UJ	400.	UJ	410.	UJ
87-68-3	Hexachlorobutadiene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
59-50-7	4-Chloro-3-methylphenol	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
91-57-6	2-Methylnaphthalene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
77-47-4	Hexachlorocyclopentadiene	410.	UJ	400.	UJ	430.	UJ	410.	UJ	400.	UJ	410.	UJ
88-06-2	2,4,6-Trichlorophenol	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
95-95-4	2,4,5-Trichlorophenol	990.	U	960.	U	1000.	U	990.	U	960.	U	1000.	U
91-58-7	2-Chloronaphthalene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
88-74-4	2-Nitroaniline	990.	U	960.	U	1000.	U	990.	U	960.	U	1000.	U
131-11-3	Dimethylphthalate	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
208-96-8	Acenaphthylene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
606-20-2	2,6-Dinitrotoluene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
99-09-2	3-Nitroaniline	990.	U	960.	U	1000.	U	990.	UJ	960.	UJ	1000.	UJ
83-32-9	Acenaphthene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
51-28-5	2,4-Dinitrophenol	990.	UJ	960.	UJ	1000.	UJ	990.	UJ	960.	UJ	1000.	UJ
100-02-7	4-Nitrophenol	990.	U	960.	U	1000.	U	990.	U	960.	U	1000.	U
132-64-9	Dibenzofuran	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
121-14-2	2,4-Dinitrotoluene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
84-66-2	Diethylphthalate	410.	U	160.	J	430.	U	410.	U	400.	U	410.	U
7005-72-3	4-Chlorophenylphenylether	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
86-73-7	Fluorene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
100-01-6	4-Nitroaniline	990.	UJ	960.	UJ	1000.	UJ	990.	UJ	960.	UJ	1000.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	990.	U	960.	U	1000.	U	990.	U	960.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	410.	UJ	400.	UJ	430.	UJ	410.	UJ	400.	UJ	410.	UJ
101-55-3	4-Bromophenylphenylether	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
118-74-1	Hexachlorobenzene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
87-86-5	Pentachlorophenol	990.	U	960.	U	1000.	U	990.	U	960.	U	1000.	U
85[illegible]-8	Phenanthrene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 SVOA													
	SAMPLE ID ------->	003-C-0002-14		003-S-0003-01		003-S-0003-07		003-S-0003-11		003-S-0004-01		003-S-0004-07	
	ORIGINAL ID ----->	003C000214		003S000301		003S000307		003S000311		003S000401		003S000407	
	LAB SAMPLE ID --->	115772		115854		115855		115856		115933		115934	
	SAMPLE DATE ----->	01/25/95		01/26/95		01/26/95		01/26/95		01/27/95		01/27/95	
	DATE EXTRACTED -->	01/30/95		01/30/95		01/30/95		01/30/95		01/30/95		01/30/95	
	DATE ANALYZED --->	02/08/95		02/08/95		02/08/95		02/09/95		02/09/95		02/09/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
86-74-8	Carbazole	410.	UJ	400.	UJ	430.	UJ	410.	UJ	400.	UJ	410.	UJ
84-74-2	Di-n-butylphthalate	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
206-44-0	Fluoranthene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
129-00-0	Pyrene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
85-68-7	Butylbenzylphthalate	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
91-94-1	3,3'-Dichlorobenzidine	410.	UJ	400.	UJ	430.	UJ	410.	UJ	400.	UJ	410.	UJ
56-55-3	Benzo(a)anthracene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
218-01-9	Chrysene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	410.	UJ	400.	UJ	430.	UJ	410.	UJ	400.	UJ	410.	UJ
117-84-0	Di-n-octylphthalate	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
205-99-2	Benzo(b)fluoranthene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
207-08-9	Benzo(k)fluoranthene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
50-32-8	Benzo(a)pyrene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
193-39-5	Indeno(1,2,3-cd)pyrene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
53-70-3	Dibenzo(a,h)anthracene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
191-24-2	Benzo(g,h,i)perylene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
108-95-2	Phenol	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
111-44-4	bis(2-Chloroethyl)ether	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
95-57-8	2-Chlorophenol	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
541-73-1	1,3-Dichlorobenzene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
106-46-7	1,4-Dichlorobenzene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
95-50-1	1,2-Dichlorobenzene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
95-48-7	2-Methylphenol (o-Cresol)	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410.	U	400.	U	430.	U	410.	UJ	400.	UJ	410.	UJ
106-44-5	4-Methylphenol (p-Cresol)	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U
98-95-3	Nitrobenzene	410.	U	400.	U	430.	U	410.	U	400.	U	410.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311	SAMPLE ID ------->	003-S-0004-12					
SVOA	ORIGINAL ID ----->	003S000412					
	LAB SAMPLE ID --->	115935					
	SAMPLE DATE ----->	01/27/95					
	DATE EXTRACTED -->	01/30/95					
	DATE ANALYZED --->	02/09/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG A					
CAS #	Parameter						
621-64-7	N-Nitroso-di-n-propylamine	430.	U				
67-72-1	Hexachloroethane	430.	U				
78-59-1	Isophorone	430.	U				
88-75-5	2-Nitrophenol	430.	U				
105-67-9	2,4-Dimethylphenol	430.	U				
111-91-1	bis(2-Chloroethoxy)methane	430.	U				
120-83-2	2,4-Dichlorophenol	430.	U				
120-82-1	1,2,4-Trichlorobenzene	430.	U				
91-20-3	Naphthalene	430.	U				
106-47-8	4-Chloroaniline	430.	UJ				
87-68-3	Hexachlorobutadiene	430.	U				
59-50-7	4-Chloro-3-methylphenol	430.	U				
91-57-6	2-Methylnaphthalene	430.	U				
77-47-4	Hexachlorocyclopentadiene	430.	UJ				
88-06-2	2,4,6-Trichlorophenol	430.	U				
95-95-4	2,4,5-Trichlorophenol	1000.	U				
91-58-7	2-Chloronaphthalene	430.	U				
88-74-4	2-Nitroaniline	1000.	U				
131-11-3	Dimethylphthalate	430.	U				
208-96-8	Acenaphthylene	430.	U				
606-20-2	2,6-Dinitrotoluene	430.	U				
99-09-2	3-Nitroaniline	1000.	UJ				
83-32-9	Acenaphthene	430.	U				
51-28-5	2,4-Dinitrophenol	1000.	UJ				
100-02-7	4-Nitrophenol	1000.	U				
132-64-9	Dibenzofuran	430.	U				
121-14-2	2,4-Dinitrotoluene	430.	U				
84-66-2	Diethylphthalate	430.	U				
7005-72-3	4-Chlorophenylphenylether	430.	U				
86-73-7	Fluorene	430.	U				
100-01-6	4-Nitroaniline	1000.	UJ				
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U				
86-30-6	N-Nitrosodiphenylamine	430.	UJ				
101-55-3	4-Bromophenylphenylether	430.	U				
118-74-1	Hexachlorobenzene	430.	U				
87-86-5	Pentachlorophenol	1000.	U				
85[illegible]8	Phenanthrene	430.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311	SAMPLE ID ------->	003-S-0004-12	
SVOA	ORIGINAL ID ----->	003S000412	
	LAB SAMPLE ID --->	115935	
	SAMPLE DATE ----->	01/27/95	
	DATE EXTRACTED -->	01/30/95	
	DATE ANALYZED --->	02/09/95	
	MATRIX ---------->	Soil	
	UNITS ---------->	UG/KG	A

CAS #	Parameter		
120-12-7	Anthracene	430.	U
86-74-8	Carbazole	430.	UJ
84-74-2	Di-n-butylphthalate	430.	U
206-44-0	Fluoranthene	430.	U
129-00-0	Pyrene	430.	U
85-68-7	Butylbenzylphthalate	430.	U
91-94-1	3,3'-Dichlorobenzidine	430.	UJ
56-55-3	Benzo(a)anthracene	430.	U
218-01-9	Chrysene	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	430.	UJ
117-84-0	Di-n-octylphthalate	430.	U
205-99-2	Benzo(b)fluoranthene	430.	U
207-08-9	Benzo(k)fluoranthene	430.	U
50-32-8	Benzo(a)pyrene	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U
53-70-3	Dibenzo(a,h)anthracene	430.	U
191-24-2	Benzo(g,h,i)perylene	430.	U
108-95-2	Phenol	430.	U
111-44-4	bis(2-Chloroethyl)ether	430.	U
95-57-8	2-Chlorophenol	430.	U
541-73-1	1,3-Dichlorobenzene	430.	U
106-46-7	1,4-Dichlorobenzene	430.	U
95-50-1	1,2-Dichlorobenzene	430.	U
95-48-7	2-Methylphenol (o-Cresol)	430.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430.	UJ
106-44-5	4-Methylphenol (p-Cresol)	430.	U
98-95-3	Nitrobenzene	430.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 TOC						
SAMPLE ID ------->	003-S-DESI-GN					
ORIGINAL ID ----->	003SDESIGN					
LAB SAMPLE ID --->	115932					
SAMPLE DATE ----->	01/27/95					
DATE ANALYZED --->	01/31/95					
MATRIX ---------->	Soil					
UNITS ---------->	MG/KG A					
CAS # Parameter						
9999900-01-4 Total Organic Carbon (TOC)	1300.					

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311	SAMPLE ID ------->	003-S-DESI-GN					
TOTAL PHOS	ORIGINAL ID ----->	003SDESIGN					
	LAB SAMPLE ID --->	115932					
	SAMPLE DATE ----->	01/27/95					
	DATE ANALYZED --->	02/09/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	MG/KG A					
CAS #	Parameter						
9999900-03-5	Phosphorus Total	5100. J					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 TPH						
SAMPLE ID ------->	003-S-0001-01	003-S-0001-07	003-S-0001-14	003-S-0002-01	003-S-0002-08	003-S-0002-14
ORIGINAL ID ----->	003S000101	003S000107	003S000114	003S000201	003S000208	003S000214
LAB SAMPLE ID --->	115759	115760	115761	115762	115763	115764
SAMPLE DATE ----->	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95	01/25/95
DATE EXTRACTED -->	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95
DATE ANALYZED --->	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	84. U	83. U	85. U	84. U	85. U	85. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 TPH						
SAMPLE ID ------->	003-C-0002-14	003-S-0003-01	003-S-0003-07	003-S-0003-11	003-S-0004-01	003-S-0004-07
ORIGINAL ID ----->	003C000214	003S000301	003S000307	003S000311	003S000401	003S000407
LAB SAMPLE ID --->	115765	115846	115847	115848	115928	115929
SAMPLE DATE ----->	01/25/95	01/25/95	01/25/95	01/25/95	01/27/95	01/27/95
DATE EXTRACTED -->	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95
DATE ANALYZED --->	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95	02/20/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	82. U	810.	87. U	87. U	81. U	84. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311	SAMPLE ID ------->	003-S-0004-12					
TPH	ORIGINAL ID ----->	003S000412					
	LAB SAMPLE ID --->	115930					
	SAMPLE DATE ----->	01/27/95					
	DATE EXTRACTED -->	02/20/95					
	DATE ANALYZED --->	02/20/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	MG/KG A					
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	180.					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 VOA																	
	SAMPLE ID ------->	003-S-0001-01		003-S-0001-07		003-S-0001-14		003-S-0002-01		003-S-0002-08		003-S-0002-14	
	ORIGINAL ID ----->	003S000101		003S000107		003S000114		003S000201		003S000208		003S000214	
	LAB SAMPLE ID --->	115766		115767		115768		115769		115770		115771	
	SAMPLE DATE ----->	01/25/95		01/25/95		01/25/95		01/25/95		01/25/95		01/25/95	
	DATE ANALYZED --->	01/28/95		01/28/95		01/28/95		01/28/95		01/28/95		01/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	13.	UJ	13.	UJ	13.	UJ	13.	UJ	14.	UJ	13.	UJ
74-83-9	Bromomethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
75-01-4	Vinyl chloride	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
75-00-3	Chloroethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
75-09-2	Methylene chloride	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
67-64-1	Acetone	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
75-15-0	Carbon disulfide	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
75-35-4	1,1-Dichloroethene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
75-34-3	1,1-Dichloroethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
67-66-3	Chloroform	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
107-06-2	1,2-Dichloroethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
78-93-3	2-Butanone (MEK)	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
56-23-5	Carbon tetrachloride	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
75-27-4	Bromodichloromethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
78-87-5	1,2-Dichloropropane	13.	UJ	13.	UJ	13.	UJ	13.	UJ	14.	UJ	13.	UJ
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
79-01-6	Trichloroethene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
124-48-1	Dibromochloromethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
71-43-2	Benzene	13.	UJ	13.	UJ	13.	UJ	13.	UJ	14.	UJ	13.	UJ
10061-02-6	trans-1,3-Dichloropropene	13.	UJ	13.	UJ	13.	UJ	13.	UJ	14.	UJ	13.	UJ
75-25-2	Bromoform	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
591-78-6	2-Hexanone	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
127-18-4	Tetrachloroethene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
108-88-3	Toluene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
108-90-7	Chlorobenzene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
100-41-4	Ethylbenzene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
100-42-5	Styrene	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U
1330-20-7	Xylene (Total)	13.	U	13.	U	13.	U	13.	U	14.	U	13.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1311 VOA	SAMPLE ID ------->	003-C-0002-14		003-S-0003-01		003-S-0003-07		003-S-0003-11		003-S-0004-01		003-S-0004-07	
	ORIGINAL ID ----->	003C000214		003S000301		003S000307		003S000311		003S000401		003S000407	
	LAB SAMPLE ID --->	115772		115854		115855		115856		115933		115934	
	SAMPLE DATE ----->	01/25/95		01/26/95		01/26/95		01/26/95		01/27/95		01/27/95	
	DATE ANALYZED --->	01/28/95		01/30/95		01/30/95		01/30/95		01/31/95		01/31/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	12.	UJ	12.	U	13.	U	13.	U	12.	U	13.	U
74-83-9	Bromomethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-01-4	Vinyl chloride	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-00-3	Chloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-09-2	Methylene chloride	1.	U	12.	U	13.	U	13.	U	12.	U	13.	U
67-64-1	Acetone	12.	U	12.	U	13.	U	13.	U	12.	U	240.	
75-15-0	Carbon disulfide	12.	U	12.	UJ	13.	UJ	13.	UJ	12.	U	13.	U
75-35-4	1,1-Dichloroethene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-34-3	1,1-Dichloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
67-66-3	Chloroform	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
107-06-2	1,2-Dichloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
78-93-3	2-Butanone (MEK)	12.	U	12.	U	13.	U	13.	U	12.	U	41.	
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
56-23-5	Carbon tetrachloride	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-27-4	Bromodichloromethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
78-87-5	1,2-Dichloropropane	12.	UJ	12.	UJ	13.	UJ	13.	UJ	12.	UJ	13.	UJ
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
79-01-6	Trichloroethene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
124-48-1	Dibromochloromethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
71-43-2	Benzene	12.	UJ	12.	U	13.	U	13.	U	12.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	12.	UJ	12.	UJ	13.	UJ	13.	UJ	12.	UJ	13.	UJ
75-25-2	Bromoform	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
591-78-6	2-Hexanone	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
127-18-4	Tetrachloroethene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
108-88-3	Toluene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
108-90-7	Chlorobenzene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
100-41-4	Ethylbenzene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
100-42-5	Styrene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
1330-20-7	Xylene (Total)	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1311 VOA			
	SAMPLE ID ------->	003-S-0004-12	
	ORIGINAL ID ----->	003S000412	
	LAB SAMPLE ID --->	115935	
	SAMPLE DATE ----->	01/27/95	
	DATE ANALYZED --->	02/03/95	
	MATRIX ---------->	Soil	
	UNITS ----------->	UG/KG	A

CAS #	Parameter		
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	13.	U
67-64-1	Acetone	3.	UJ
75-15-0	Carbon disulfide	13.	UJ
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 (MEK)	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 (MIBK)	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

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	9500263, 9500264 (Level III Validation)
Case Nº:	FD1314

Sample Identification	Matrix
003S000501	Soil
003S000507	Soil
003S000511	Soil
003S000520	Soil
0035000101	Soil
0035000108	Soil
0035000112	Soil
0035000201	Soil
0035000208	Soil
005S000210	Soil
005S000301	Soil
005S000307	Soil
005S000317	Soil
005S000401	Soil
005C000401	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil
005S000307D	Soil
005S000307S	Soil

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INTRODUCTION

This data review report covers 20 soil samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form X), inter-element corrections (Form XI A & B) and linear range analysis (Form XII) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Init. Calib. Blank (µg/L)	Cont. Calib. Blank (µg/L)	Preparation Blank	Field or Trip Blank	Action Level (5 x highest blk)	Associated Samples
Tin	3.0	7.0	13.8	6.7		69.0	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
003S501	Tin 7.5U	7.5B	7.5U
003S507	7.3U	7.3B	7.3U
003S511	9.3U	9.3B	9.3U
003S520	8.5U	8.5B	8.5U
005S108	5.9U	5.9B	5.9U
005S112	6.5U	6.5B	6.5U
005S201	7.9U	7.9B	7.9U
005S208	10.5U	10.5B	10.5U
005S210	15.3U	15.3B	15.3U
005S301	11.7U	11.7B	11.7U
005S307	5.2U	5.2B	5.2U
005S317	7.1U	7.1B	7.1U
005S401	7.0U	7.0B	7.0U
005C401	7.4U	7.4B	7.5U
005S410	7.5U	7.5B	7.5U
005S601	3.8U	3.8B	3.8U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met except for the following:

Element	RPD	QC Limit	Associated Samples	Flag
Barium	35.5	35%	All	J

VII. SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	%R	Associated Samples	Flag
Antimony	34.2	All	J(detect)/UJ(non-detect)
Lead	43.3	All	J(detect)/UJ(non-detect)
Selenium	70.9	All	J(detect)/UJ(non-detect)

Post digestive/distillation spike was performed for element outside of the control recovery limit

VIII. GRAPHITE FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within $\geq$20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
003S511	Selenium	120.5	85-115%	UJ
005S108		75.5		UJ
005S112		77.0		UJ
005S208		77.5		UJ
005S210		66.5		UJ
005S307		76.5		UJ
005S317		71.0		UJ
005S401		78.5		J
005S601		77.5		J
005S307D		78.0		UJ
005S112	Arsenic	136	85-115%	J
005S201		120		
005S208		125		
005S210		122.2		
005S301		119.2		
005S307		120		
005S317		121.8		
005S401		120.2		
005C401		118.2		
005S405		128.5		
005S410		122.8		
005S601		125.2		
005S307D		127		

MSA was performed and the results were within QC limit.

MSA was required for the following samples but were not performed.

Sample	Elements	Flag
003S511	Se	UJ
005S108	Se	UJ
005S112	Se	UJ
005S208	Se	UJ
005S210	Se	UJ
005S307	Se	UJ
005S317	Se	UJ
005S401	Se	UJ
005S601	Se	UJ
005S307D	Se	UJ

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met except for the following:

Element	IDL (µg/L)	50 x IDL (µg/L)	I (µg/L)	S (µg/L)	%D	Associated Samples	Flag
Barium	2.0	100.0	645.9	559.1	13.4	All	J

X. SAMPLE RESULTS VERIFICATION

No raw data checks were carried out for this SDG.

XI. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XII. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1314

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1314	003S000501 003S000507 003S000511 003S000520 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005C000401 005S000410 005S000601	Tin	U	Blank contamination
FD1314	003S000501 003S000507 003S000511 003S000520 005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	Barium	J	Duplicate %RPD out serial dilution %D
FD1314	003S000501 003S000507 003S000511 003S000520 005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	Sb Pb	UJ J	MS %R

SDG N°	Sample ID	Parameter	Flag	Reason
FD1314	003S000501	Se	J	MSD %R
	003S000507	Se	UJ	
	003S000511	Se	UJ	
	003S000520	Se	UJ	
	005S000101	Se	J	
	005S000108	Se	UJ	
	005S000112	Se	UJ	
	005S000201	Se	UJ	
	005S000208	Se	UJ	
	005S000210	Se	UJ	
	005S000301	Se	UJ	
	005S000307	Se	UJ	
	005S000317	Se	UJ	
	005S000401	Se	J	
	005C000401	Se	UJ	
	005S000405	Se	UJ	
	005S000410	Se	UJ	
	005S000601	Se	J	
FD1314	003S000511	Se	UJ	Furnace Atomic Absorption
	005S000108		UJ	
	005S000112		UJ	
	005S000208		UJ	
	005S000210		UJ	
	005S000307		UJ	
	005S000317		UJ	
	005S000401		J	
	005S000601		J	
	005S000307D		UJ	
FD1314	005S000112	As	J	Furnace Atomic Absorption
	005S000201			
	005S000208			
	005S000210			
	005S000310			
	005S000307			
	005S000317			
	005S000401			
	005C000401			
	005S000405			
	005S000410			
	005S000601			
	005S000307D			

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00263 & 95.00264 (Level III Validation)
Case Nº:	FD1314

Sample Identification	Matrix
003S000501	Soil
003S000507	Soil
003S000511	Soil
003S000520	Soil
005S000101	Soil
005S000108	Soil
005S000112	Soil
005S000201	Soil
005S000208	Soil
005S000210	Soil
005S000301	Soil
005S000307	Soil
005S000317	Soil
005S000401	Soil
005C000401	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil

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INTRODUCTION

This data review report covers 18 soil samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
01/30/95 14:43	HP5970L	Acetone 2-Butanone	51.4 (≤30.0%) 58.2 (≤30.0%)	All except 005C000401	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/02/95 10:47	HP5970L	Acetone	46.1 (≤ ±25.0%)	003S000501 003S000507 003S000511 003S000520 005S000101 005S000108	J(detect)/UJ(non-detect)
02/03/95 10:54	HP5970L	Acetone	33.5 (≤ ±25.0%)	005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005S000405 005S000410 005S000601	J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies.

Contaminants found in the method blank(s) are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
02/02/95	VBLK020295L	Acetone	10	100	003S000507 003S000520 005S000108	35B 7BJ 11BJ	35U 13U 13U

No field blank was analyzed.

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Field duplicates, performance evaluation samples (PE), blind spikes and blind blanks were reviewed.

Sample	Duplicate	Matrix	Compound	%R	RPD

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements except for the following:

Sample	Internal Standard	Area Count	QC Limit	Compounds Affected	Flag
005S000401	Chlorobenzene-d5	36500	42250-169000	4-Methyl-2-pentanone 2-Hexanone Tetrachloroethylene 1,1,2,2-Tetrachloroethane Toluene Chlorobenzene Ethylbenzene Styrene m-Xylene o,p-Xylene	J(detect)/UJ(non-detect)

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (x/x)		RPD (QC Limit)	Flag
	005S000401	005C000401		
Methylene chloride	13U	2J	NC (<50%)	J(detect)/UJ(non-detect)

XVI. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1314

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1314	All except 005C000401	Acetone 2-Butanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1314	003S000501 003S000507 003S000511 003S000520 005S000101 005S000108	Acetone	J(detect)/UJ(non-detect)	Continuing calibration %RSD
FD1314	005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005S000405 005S000410 005S000601	Acetone	J(detect)/UJ(non-detect)	Continuing calibration %RSD
FD1314	003S000507 003S000520 005S000108	Acetone	35U 13U 13U	Blank contamination
FD1314	005S000401	Chlorobenzene Ethylbenzene 2-Hexanone 4-Methyl-2-pentanone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene m-Xylene o,p-Xylene	J(detect)/UJ(non-detect)	Internal standard
FD1314	005S000401 005C000401	Methylene chloride	J(detect)/UJ(non-detect)	Field duplicate RPD

E/A&H VALIDATION ADDENDUM

Validation Subcontractor:	CKY Environmental Services, Inc.
Site Name:	NAS Memphis, Millington, Tennessee
CTO and Subtask No.:	0094-04730
Laboratory:	NET Atlantic, Inc.
Sample Delivery Group:	FD1314
Matrix:	Soil
Analysis:	Volatile Organic Compounds
Sample:	005S000210
E/A&H Project Chemist:	Charlene M. Thompson CMT

Acetone was found at a concentration of 6 μg/Kg in sample 005S000210. The validators did not negate acetone in this sample because it was not detected in any of the blanks presented with the SDG data package.

Acetone was detected in rinsate blank 005E012895 at a concentration of 8 μg/L. Although this sample was not analyzed with SDG FD1314, it is associated with sample 005S000210 because it was collected the same day as the sample in question.

Acetone was qualified as nondetect (U) in sample 005S000210 and the detection limit was raised to the quantitation limit.

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00263 & 95.00264 (Level III Validation)
Case Nº:	FD1314

Sample Identification	Matrix
003S000501	Soil
003S000507	Soil
003S000511	Soil
003S000520	Soil
005C000401	Soil
005S000101	Soil
005S000108	Soil
005S000112	Soil
005S000201	Soil
005S000208	Soil
005S000210	Soil
005S000301	Soil
005S000307	Soil
005S000317	Soil
005S000401	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil
005S000307MS	Soil
005S000307MSD	Soil

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INTRODUCTION

This data review report covers 20 soil samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Holding Time/ QC Limit	Flag
005S000201	Soil	16 (14)	J(detect)/UJ(non-detect)

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date	Instrument	Compound	%RSD (Guideline QC Limit)	Associated Samples	Flag
02/08/95	HP5970J	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N-Nitrosodiphenylamine bis(2-ethylhexyl)phthalate	38.8 (≤30%) 30.2 (≤30%) 40.3 (≤30%) 32.5 (≤30%) 31.5 (≤30%)	005C000401 005S000210 005S000301 005S000307 005S000317 005S000401 005S000405 005S000410 005S000601	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
01/16/95	HP5970F	2,4-Dinitrophenol	44.7 (≤30%)	003S000501 003S000507 003S000511 003S000520 005S000101 005S000108 005S000112 005S000201 005S000208	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%D (Guideline QC Limit)	Associated Samples	Flag
02/09/95	HP5970F	2,2'-Oxybis(1-chloropropane)	28.4 (≤25%)	003S000501	J(detect)/UJ(non-detect)
		4-Chloroaniline	72.4 (≤25%)	003S000507	J(detect)/UJ(non-detect)
		Hexachlorocyclopentadiene	40.2 (≤25%)	003S000511	J(detect)/UJ(non-detect)
		3-Nitroaniline	-26.6 (≤25%)	003S000520	J(detect)/UJ(non-detect)
		4-Nitroaniline	-40.7 (≤25%)	005S000101	J(detect)/UJ(non-detect)
		N-Nitrosodiphenylamine	63.5 (≤25%)	005S000108	J(detect)/UJ(non-detect)
		Carbazole	-30.0 (≤25%)	005S000112	J(detect)/UJ(non-detect)
		3,3'-Dichlorobenzidine	-33.6 (≤25%)	005S000208	J(detect)/UJ(non-detect)
		bis(2-ethylhexyl)phthalate	-37.2 (≤25%)		J(detect)/UJ(non-detect)
		2,4,6-Tribromophenol	29.2 (≤25%)		J(detect)/UJ(non-detect)
02/15/95	HP5970F	2,2'-oxybis(1-chloropropane)	27.6 (≤25%)	005S000201	J(detect)/UJ(non-detect)
		1,2,4-Trichlorobenzene	25.9 (≤25%)		J(detect)/UJ(non-detect)
		Hexachlorobutadiene	34.0 (≤25%)		J(detect)/UJ(non-detect)
		Hexachlorocyclopentadiene	42.1 (≤25%)		J(detect)/UJ(non-detect)
		4-Nitroaniline	-29.8 (≤25%)		J(detect)/UJ(non-detect)
		4-Bromophenylphenyl ether	29.4 (≤25%)		J(detect)/UJ(non-detect)
		Hexachlorobenzene	34.2 (≤25%)		J(detect)/UJ(non-detect)
		Pentachlorophenol	38.8 (≤25%)		J(detect)/UJ(non-detect)
		bis(2-ethylhexyl)phthalate	-27.8 (≤25%)		J(detect)/UJ(non-detect)
		2,4,6-Tribromophenol	40.7 (≤25%)		J(detect)/UJ(non-detect)
02/10/95	HP5970J	4-Chloroaniline	69.6 (≤25%)	005S000210	J(detect)/UJ(non-detect)
		N-Nitrosodiphenylamine	56.9 (≤25%)	005S000301	J(detect)/UJ(non-detect)
		bis(2-ethylhexyl)phthalate	-36.4 (≤25%)	005S000307	J(detect)/UJ(non-detect)
				005S000317	
				005S000401	
				005S000405	
				005S000410	
02/13/95	HP5970J	Hexachlorocyclopentadiene	-27.0 (≤25%)	005C000401	J(detect)/UJ(non-detect)
		3,3'-Dichlorobenzidine	27.4 (≤25%)	005S000601	J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies.

Contaminants found in the method blanks are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Associated Samples	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
02/05/95	SBLK020595F	Di-N-butyl phthalate	160	1600	003S000501	440U	None
					003S000507	430U	None
					003S000511	430U	None
					003S000520	430U	None
					005S000101	430U	None
					005S000108	430U	None
					005S000112	420U	None
					005S000208	430U	None
02/05/95	SBLK020595J	Di-N-butyl phthalate	190	1900	005C000401	420U	None
					005S000210	430U	None
					005S000301	430U	None
					005S000307	460U	None
					005S000317	440U	None
					005S000401	410U	None
					005S000405	420U	None
					005S000410	430U	None
					005S000601	430U	None

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Associated Samples	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
02/13/95	SBLK021395F	Di-N-butyl phthalate	470	4700	005S000201	420U	None

No field blank was analyzed for this SDG.

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SOW.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within RPD QC limit except for the following:

Compound	Concentration (µg/kg)		RPD (QC Limit)	Flag
	005S000401	005C000401		
Phenanthrene	53J	110J	70% (50%)	J
Fluoranthene	150J	320J	72% (50%)	J
Pyrene	120J	270J	77% (50%)	J
Benzo(a)Anthracene	60J	140J	80% (50%)	J
Chrysene	77J	170J	75% (50%)	J
Bis(2-ethylhexyl)phthalate	410U	45J	NA	J(detect)/UJ(non-detect)
Benzo(b)Fluoranthene	76J	170J	76% (50%)	J
Benzo(k)Fluoranthene	78JY	170JY	74% (50%)	J
Benzo(a)Pyrene	81J	170J	71% (50%)	J
Indeno(1,2,3-cd)Pyrene	50J	120J	82% (50%)	J
Dibenz(a,h)Anthracene	410U	44J	NA	J(detect)/UJ(non-detect)
Benzo(g,h,i)perylene	57J	130J	78% (50%)	J

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - Case Nº FD1314

Case Nº	Sample ID	Parameter	Flag	Reason
FD1314	005S000201	All compounds	J(detect)/UJ(non-detect)	Technical holding time violation
FD1314	005C000401 005S000210 005S000301 005S000307 005S000317 005S000401 005S000405 005S000410 005S000601	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N-Nitrosodiphenylamine bis(2-ethylhexyl)phthalate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1314	003S000501 003S000507 003S000511 003S000520 005S000101 005S000108 005S000112 005S000201 005S000208	2,4-Dinitrophenol	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1314	003S000501 003S000507 003S000511 003S000520 005S000101 005S000108 005S000112 005S000208	2,2'-oxybis(1-chloropropane) 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 4-Nitroaniline N-Nitrosodiphenylamine Carbazole 3,3'-Dichlorobenzidine bis(2-ethylhexyl)phthalate 2,4,6-Tribromophenol	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1314	005S000201	2,2'-oxybis(1-Chloropropane) 1,2,4-Trichlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene 4-Nitroaniline 4-Bromophenylphenyl ether Hexachlorobenzene Pentachlorophenol Bis(2-ethylhexyl)phthalate 2,4,6-Tribromophenol	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1314	005S000210 005S000301 005S000307 005S000307MS 005S000307MD 005S000317 005S000401 005S000405 005S000410	4-Chloroaniline N-Nitrosodiphenylamine bis(2-ethylhexyl)phthalate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1314	005C000401 005S000601	Hexachlorocyclopentadiene 3,3'-Dichlorobenzidine	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1314	005S000401 005C000401	Phenanthrene Fluoranthene Pyrene Benzo(a)Anthracene Chrysene Bis(2-ethylhexyl)phthalate Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(a)Pyrene Indeno(1,2,3-cd)Pyrene Dibenz(a,h)Anthracene Benzo(g,h,i)Perylene	J J J J J J(detect)/UJ(non-detect) J J J J J(detect)/UJ(non-detect) J	Field Duplicated RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00263 & 95.00264 (Level III Validation)
Case Nº:	FD1314

Sample Identification	Matrix
003S000501	Soil
003S000507	Soil
003S000511	Soil
003S000520	Soil
005C000401	Soil
005C000401DL	Soil
005S000101	Soil
005S000108	Soil
005S000112	Soil
005S000201	Soil
005S000208	Soil
005S000210	Soil
005S000301	Soil
005S000301DL	Soil
005S000307	Soil
005S000307DL	Soil
005S000317	Soil
005S000401	Soil
005S000401DL	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil
005S000307MS	Soil
005S000307MSD	Soil

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INTRODUCTION

This data review report covers 24 soil samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Instrument evaluation mixtures, standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

The %RSD for calibration factors of single component analytes were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit except for the following:

Date/ Time	Column/ Instrument	Compounds	%D	QC Limit	Associated Samples	Flag
02/16/95 18:27	XTI5/GC#15	alpha-BHC	16.08	±15%	003S000501	J(detects)/UJ(non-detects) (Primary Column)
		gamma-BHC	16.26	±15%	003S000507	J(detects)/UJ(non-detects) (Primary Column)
		Heptachlor	15.74	±15%	003S000511	J(detects)/UJ(non-detects) (Primary Column)
		Dieldrin	15.28	±15%	003S000520	J(detects)/UJ(non-detects) (Primary Column)
		Endrin	18.64	±15%		J(detects)/UJ(non-detects) (Primary Column)
		4,4'-DDD	17.80	±15%		J(detects)/UJ(non-detects) (Primary Column)
		4,4'-DDT	17.84	±15%		J(detects)/UJ(non-detects) (Primary Column)
02/16/95 18:27	RTX35/GC#15	Endrin	15.25	±15%	003S000501 003S000507 003S000511 003S000520	None (Secondary Column)
02/17/95 03:09	XTI5/GC#15	alpha-BHC	16.97	±15%	005S000101	J(detects)/UJ(non-detects) (Primary Column)
		gamma-BHC	16.17	±15%	005S000108	J(detects)/UJ(non-detects) (Primary Column)
		Heptachlor	17.74	±15%	005S000112	J(detects)/UJ(non-detects) (Primary Column)
		Endosulfan I	16.52	±15%	005S000201	J(detects)/UJ(non-detects) (Primary Column)
		Dieldrin	17.12	±15%	005S000208	J(detects)/UJ(non-detects) (Primary Column)
		4,4'-DDT	17.07	±15%	005S000210	J(detects)/UJ(non-detects) (Primary Column)
					005S000307	J(detects)/UJ(non-detects) (Primary Column)
02/17/95 12:31	XTI5/GC#15	Endosulfan II	18.93	±15%	005S000317 005S000405 005S000410 005S000601	J(detects)/UJ(non-detects) (Primary Column)
02/17/95 12:31	RTX35/GC#15	Endosulfan II	21.72	±15%	005S000317 005S000405 005S000410 005S000601	None (Secondary Column)
02/28/95 16:29	RTX5/GC#9	Endosulfan I	15.66	±15%	005S000301	None (Secondary Column)
		Endrin	19.04	±15%	005S000401	None (Secondary Column)
		4,4'-DDD	19.42	±15%	005C000401	None (Secondary Column)
02/28/95 17:09	RTX5/GC#9	beta-BHC	15.87	±15%	005S000301	None (Secondary Column)
		Heptachlor epoxide	18.83	±15%	005S000401	None (Secondary Column)
		g-Chlordane	15.71	±15%	005C000401	None (Secondary Column)
		Endosulfan II	18.53	±15%		J(detects)/UJ(non-detects) (Primary Column)
		Endrin aldehyde	23.80	±15%		J(detects)/UJ(non-detects) (Primary Column)
		Endosulfate	18.77	±15%		None (Secondary Column)
		Endrin ketone	16.96	±15%		None (Secondary Column)

Date/ Time	Column/ Instrument	Compounds	%D	QC Limit	Associated Samples	Flag
03/01/95 01:05	RTX5/GC#9	gamma-BHC	19.03	±15%	005S000301	None (Secondary Column)
		Endosulfan I	19.26	±15%	005S000401	None (Secondary Column)
		Dieldrin	16.43	±15%	005C000401	None (Secondary Column)
		Endrin	23.29	±15%		None (Secondary Column)
		4,4'-DDD	20.94	±15%		None (Secondary Column)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Flag
005S000307	Dieldrin	N/A	N/A	56 (30%)	J

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed but not reported for this SDG.

IX. FLORISIL CARTRIDGE CHECK:

The %Rs for florisil cartridge check were within QC limit.

X. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were properly identified. %Ds between two columns were out of QC limit for the following sample:

Sample	Compound	Column	RT (Window)	%D (QC Limit)	Flag
005C000401	Heptachlor epoxide			179.4 (≤25%)	J
	Endrin			31.1 (≤25%)	J
	4,4'-DDT			83.3 (≤25%)	J
005S000101	Dieldrin			201.4 (≤25%)	J

Sample	Compound	Column	RT (Window)	%D (QC Limit)	Flag
005S000401	Heptachlor epoxide			225.0 (≤25%)	J
	4,4'-DDT			124.5 (≤25%)	J
005S000301	Heptachlor epoxide			262.5 (≤25%)	J
005S000301DL	Dieldrin			56.7 (≤25%)	J
005S000307	Dieldrin			211.1 (≤25%)	J
005S000307DL	Dieldrin			156.8 (≤25%)	J
005S000405	Dieldrin			3514.5 (≤25%)	J
005S000601	Dieldrin			60.0 (≤25%)	J
005C000401	Aroclor-1260			31.8 (≤25%)	J
005S000301	Aroclor-1260			78.3 (≤25%)	J
005S000401DL	Aroclor-1260			72.2 (≤25%)	J

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked. Compound quantitation and reported CRQLs met QC requirements.

The case narrative stated that all concentrations reported were from the front column. However, for the following samples and compounds, concentrations reported were from the rear column since the CCV results for the front column did not meet QC criteria.

Sample	Compound
003S000501 005C000401DL 005S000101 005S000201 005S000401DL	Dieldrin
005C000401 005S000301	Aroclor 1260

The following samples were diluted. The out-of-range compound results were modified according to the results of the diluted samples.

Sample	Compound	Reported Results (µg/kg)	Modified Results (µg/kg)
005S000401	Dieldrin	290E	299D
005C000401	Dieldrin	928E	874D
005S000301	Heptachlor epoxide Dieldrin	16PE 65E	11UD 60D
005S000307	Dieldrin	45PE	37D

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (µg/kg)		RPD (QC Limit)	Flag
	005S000401	005C000401		
Heptachlor epoxide	2.8	6.8	83 (≤50%)	J
Dieldrin	290	928	105 (≤50%)	J
4,4'-DDT	11	33	100 (≤50%)	J
Aroclor-1260	90	223	85 (≤50%)	J

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - Case Nº FD1314

Case Nº	Sample ID	Parameter	Flag	Reason
FD1314	005S000307	Dieldrin	J	Matrix spike/matrix spike duplicate RPD
FD1314	003S000501 003S000507 003S000511 003S000520	alpha-BHC gamma-BHC Heptachlor Dieldrin Endrin 4,4'-DDD 4,4'-DDT	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000307	alpha-BHC gamma-BHC Heptachlor Endosulfan I Dieldrin 4,4-DDT	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000317 005S000405 005S000410 005S000601	Endosulfan II	J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000301 005S000401 005C000401	Endosulfan II Endrin aldehyde	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000401 005C000401	Heptachlor epoxide Dieldrin 4,4'-DDT Aroclor-1260	J(detects) J(detects) J(detects) J(detects)	Field duplicate RPD
FD1314	005S000401	Heptachlor epoxide Dieldrin 4,4'-DDT Aroclor-1260	J J J J	Field duplicate RPD
FD1314	005C000401	Heptachlor epoxide Endrin 4,4'-DDT	J J J	%D between two columns %D between two columns %D between two columns
	005S000401	Heptachlor epoxide 4,4'-DDT	J J	%D between two columns %D between two columns
	005S000301	Heptachlor epoxide	J	%D between two columns
	005S000101 005S000301DL 005S000307 005S000307DL 005S000405 005S000601	Dieldrin Dieldrin Dieldrin Dieldrin Dieldrin Dieldrin	J	%D between two columns %D between two columns %D between two columns %D between two columns %D between two columns %D between two columns
	005S000401 005S000301 005S000401DL	Aroclor Aroclor Aroclor	J	%D between two columns %D between two columns %D between two columns
FD1314	005S000401	Dieldrin	299D	Sample dilution
FD1314	005C000401	Dieldrin	874D	Sample dilution
	005S000307	Dieldrin	37D	Sample dilution
	005S000301	Dieldrin Heptachlor epoxide	60D 11UD	Sample dilution

C K Y incorporated
Analytical Laboratories

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00263 & 95.00264 (Level III Validation)
SDG Nº:	FD1314

Sample Identification	Matrix
003S000511	Soil
003S000507	Soil
003S000501	Soil
005S000317	Soil
005S000401	Soil
005C000401	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil
003S000520	Soil
005S000101	Soil
005S000108	Soil
005S000112	Soil
005S000201	Soil
005S000208	Soil
005S000210	Soil
005S000301	Soil
005S000307MS	Soil
005S000307MSD	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 20 soil samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency except for the following:

Date/ Time	Column	Compounds	Out of Limit Parameters	QC Limit	Associated Samples	Flag
02/19/95 02:54	RTX-5	All	CCV	< 24 hours	003S000501 003S000507 003S000511 003S000520	J(detects)/UJ(non-detects)
02/20/95 17:07	RTX-35	All	CCV	< 24 hours	003S000501 003S000507 003S000511 003S000520	J/(detects)/UJ(non-detects)

III. INSTRUMENT PERFORMANCE EVALUATION

Not applicable.

IV. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of single component analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/14/95 23:49	RTX-5	MCPP MCPA	24.5 21.5	< 20% < 20%	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 003S000501 003S000507 003S000511 003S000520	J(detects)/UJ(non-detects)
02/14/95 23:49	RTX-35	MCPP	32.7	< 20%	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 003S000501 003S000507 003S000511 003S000520	None (conf. only)

Date/ Time	Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/22/95 18:23	RTX-5	MCPP MCPA 2,4,5-T 2,4-DB	25.3 28.6 21.0 22.4	< 20% < 20% < 20% < 20%	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)
02/24/95 19:27	RTX-5	MCPP MCPA 2,4,5-T 2,4-DB	31.7 28.7 35.4 43.7	< 20% < 20% < 20% < 20%	None	None None None None
02/24/95 19:27	RTX-35	2,4,5-T 2,4-DB	26.5 22.0	< 20% < 20%	None	None (Conf. only) None (Conf. only)

V. CONTINUING CALIBRATION

Continuing calibration of INDAM and INDBM were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B)except for the following:

Date	Standard/ Column	Compound	Associated Compounds	%D (QC Limit)	Flag
02/17/95 23:59	8150L3/RTX-35	MCPP	005S000101 005S000108 005S000112 005S000201 005S000208	-23.7 (< ±15%)	None (Conf. only)
02/18/95 06:45	8150L3/RTX-5	MCPP	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307	-19 (< ±15%)	J(detects)/UJ(non-detects)
02/18/95 14:16	8150L3/RTX-35	MCPP MCPA	005S000210 005S000301 005S000307	-35.5 (< ±15%) -15.9 (< ±15%)	None (Conf. only) None (Conf. only)
02/19/95 02:54	8150L3/RTX-35	MCPP	003S000501 003S000507 003S000511 003S000520	29.3 (< ±15%)	None (Conf. only)
02/20/95 17:07	8150L3/RTX-35	MCPP MCPA Dichloroprop 2,4-D Silvex	003S000501 003S000507 003S000511 003S000520	-36.0 (< ±15%) -19.2 (< ±15%) -16.4 (< ±15%) -21.1 (< ±15%) -16.7 (< ±15%)	None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only)
02/21/95 13:57	8150L3/RTX-5	Dichloroprop Dinoseb	None	-15.7 (< ±15%) -18.6 (< ±15%)	None (Conf. only) None (Conf. only)
02/21/95 13:57	8150L3/RTX-35	Dicamba MCPP MCPA Dichloroprop 2,4-D Silvex	None	-15.9 (< ±15%) -45.1 (< ±15%) -21.4 (< ±15%) -20.0 (< ±15%) -22.7 (< ±15%) -22.6 (< ±15%)	None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only)
02/23/95 17:59	8150L3/RTX-5	2,4,5-T	None	20.4 (< ±15%)	None (Conf. only)

Date	Standard/ Column	Compound	Associated Compounds	%D (QC Limit)	Flag
02/23/95 17:59	8150L3/RTX-35	Silvex 2,4,5-T 2,4-DB	None	-20.8 (< ±15%) 19.0 (< ±15%) 27.3 (< ±15%)	None (Conf. only) None (Conf. only) None (Conf. only)
02/24/95 02:45	8150L3/RTX-5	Dichloroprop 2,4-D	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	-19.2 (< ±15%) -22.0 (< ±15%)	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)
02/24/95 02:45	8150L3/RTX-35	Dicamba MCPP Dichloroprop Silvex 2,4-DB	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	-16.1 (< ±15%) -22.4 (< ±15%) -15.7 (< ±15%) -16.2 (< ±15%) 23.4 (< ±15%)	None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only)
02/24/95 09:32	8150L3/RTX-5	Dicamba Dichloroprop 2,4-D	005S000405 005S000410 005S000601	-15.7 (< ±15%) -21.4 (< ±15%) -15.9 (< ±15%)	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)
02/24/95 09:32	8150L3/RTX-35	Dalapon Dicamba MCPP MCPA Dichloroprop 2,4-D Silvex 2,4-DB	005S000405 005S000410 005S000601	-18.2 (< ±15%) -21.4 (< ±15%) -32.2 (< ±15%) -20.9 (< ±15%) -18.9 (< ±15%) -15.5 (< ±15%) -19.2 (< ±15%) -25.8 (< ±15%)	None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only) None (Conf. only)

VI. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VII. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	%R (Adv. Limit%)	Parameters	Flag
005S000210	RTX-5	153 (40-115%)	All compounds	J(detects)/None(non-detects)
005S000101	RTX-35	177 (40-115%)	All compounds	None (Conf. only)
005S000410	RTX-5	152 (40-115%)	All compounds	J(detects)/None(non-detects)
005S000410	RTX-35	142 (40-115%)	All compounds	None (Conf. only)
003S000507	RTX-35	147 (40-115%)	All compounds	None (Conf. only)
003S000511	RTX-35	177 (40-115%)	All compounds	None (Conf. only)
003S000511	RTX-5	132 (40-115%)	All compounds	J(detects)/None(non-detects)

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Flag
005S000307	2,4,5-TP	4286 (10-150%)	2206 (10-150%)	64 < (20%)	J(detects)/None(non-detects)
	2,4,5-T	329 (10-150%)	279 (10-150%)		J(detects)/None(non-detects)
	Dalapon	0 (10-150%)	0 (10-150%)		J(detects)/R(non-detects)
	Dicamba	186 (10-150%)	377 (10-150%)	72 < (20%)	J(detects)/None(non-detects)
	2,4-DB	671 (10-150%)	294 (10-150%)	78 < (20%)	J(detects)/None(non-detects)
	MCPA	357 (10-150%)	471 (10-150%)	28 < (20%)	J(detects)/None(non-detects)
	MCPP	0 (10-150%)	265 (10-150%)	200 < (20%)	J(detects)/R(non-detects)

IX. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (Limit)	RT (QC Limit)	Associated Samples	Flag
HLCS020BS	RTX-5	2,4-DB Dinoseb	224.35 (10-150%) 0.00	0.00 (19.5-19.6)	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	J(detects)/None(non-detects) J(detects)/R(non-detects)
HLCS020BS	RTX-35	Dinoseb	0.00(10-150%)	0.00 (23.99-24.09)	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	None (Conf. only)
LCS0206S	RTX-5	MCPP Silvex Dinoseb	249.11 (10-150%) 1228.10 (10-150%) 8.75 (10-150%)		005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307	J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/R(non-detects)
LCS0206S	RTX-35	2,4,5-T	156.73 (10-150%)		005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307	None (Conf. only)
LCS0209	RTX-5	Dinoseb	3.62		003S000501 003S000507 003S000511 003S000520	J(detects)/R(non-detects)
LCS0209	RTX-35	Dinoseb	3.91		003S000501 003S000507 003S000511 003S000520	None (conf. only)

X. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

XI. COMPOUND IDENTIFICATION

%Ds between two columns were out of QC limits for the following:

Sample	Compound	%D	QC Limit	Flag
005S000101	DCAA MCPA	317.4 646.6	≤25% ≤25%	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
005S000208	DCAA MCPA 2,4,5-T	28.7 92.9 216.2	≤25% ≤25% ≤25%	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
003S000507	DCAA MCPA	30.9 65.6	≤25% ≤25%	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
003S000511	DCAA MCPA	33.8 68.8	≤25% ≤25%	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. SYSTEM PERFORMANCE

The quality control parameters: Standards, Blanks, MS/MSD, and Surrogate Spike Recoveries for this SDG were all properly performed and within QC limits.

XIV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XV. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Field QC samples were used only to assure blank cross-contamination in the investigative samples.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1314

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1314	003S000501 003S000507 003S000511 003S000520	All	J(detects)/UJ(non-detects)	Analytical sequence
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 003S000501 003S000507 003S000511 003S000520	MCPP MCPA	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Initial calibration %RSD
FD1314	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	MCPP MCPA 2,4,5-T 2,4-DB	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/-UJ(non-detects) J(detects)/-UJ(non-detects)	Initial calibration %RSD
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307	MCPP	J(detects)/UJ(detects)	Continuing calibration %D
FD1314	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	Dichloroprop 2,4-D	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000405 005S000410 005S000601	Dicamba Dichloroprop 2,4-D	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000210 005S000410 003S000511	All	J(detects)/None(non-detects)	Surrogate spike %R
FD1314	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	2,4-DB Dinoseb	J(detects)/None(non-detects) J(detects)/R(non-detects)	Laboratory control sample %R
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307	MCPP Silvex Dinoseb	J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/R(non-detects)	Laboratory control sample %R
FD1314	003S000501 003S000507 003S000511 003S000520	Dinoseb	J(detects)/R(non-detects)	Laboratory control sample %R

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1314	005S000307	2,4,5-TP 2,4,5-T Dalapon Dicamba 2,4-DB MCPA MCPP	J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/R(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/R(non-detects)	MS/MSD %R
FD1314	005S000208 005S000101 003S000507 003S000511	MCPA DCAA	J(detects)/UJ(non-detects)	Compound identification %D
FD1314	005S000208	2,4,5-T	J(detects)/UJ(non-detects)	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00263 & 95.00264 (Level III Validation)
SDG Nº:	FD1314

Sample Identification	Matrix
003S000501	Soil
003S000507	Soil
003S000511	Soil
003S000520	Soil
005S000101	Soil
005S000108	Soil
005S000112	Soil
005S000201	Soil
005S000208	Soil
005S000210	Soil
005S000301	Soil
005S000307	Soil
005S000317	Soil
005S000401	Soil
005C000401	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil

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INTRODUCTION

This data review report covers 18 soil samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/13/95-02/14/95 20:25-01:43	RF250/RTX-35	Mevinphos Alpha	24.8	20%	005S000101	J(detects)/UJ(non-detects)
	RF500/RTX-35	Demeton, o	26.3	20%	005S000108	J(detects)/UJ(non-detects)
	RF1000/RTX-35	Fensulfothion	35.9	20%	005S000112	None (confirmation only)
	RF2000/RTX-35	Stirophos	22.4	20%	005S000201	J(detects)/UJ(non-detects)
	RF4000/RTX-35	Guthion	72.4	20%	005S000208	J(detects)/UJ(non-detects)
					005S000210	
					005S000301	
					005S000307	
					005S000317	
					005S000401	
					005C000401	
					005S000405	
					005S000410	
					005S000601	
02/13/95-02/14/95 20:25-01:43	RF250/RTX-5	Mevinphos Alpha	21.3	20%	005S000101	None (confirmation only)
	RF500/RTX-5	Naled	43.5	20%	005S000108	J(detects)/UJ(non-detects)
	RF1000/RTX-5	Merphos	42.6	20%	005S000112	J(detects)/UJ(non-detects)
	RF2000/RTX-5	Fensulfothion	31.9	20%	005S000201	None (confirmation only)
	RF4000/RTX-5	Guthion	40.5	20%	005S000208	J(detects)/UJ(non-detects)
					005S000210	
					005S000301	
					005S000307	
					005S000317	
					005S000401	
					005C000401	
					005S000405	
					005S000410	
					005S000601	
02/22/95-02/23/95 20:40-01:58	RF250/RTX-35	Mevinphos alpha	22.7	20%	0003S000501	J(detects)/UJ(non-detects)
	RF500/RTX-35	Merphos	26.8	20%	0003S000507	None (confirmation only)
	RF1000/RTX-35	Fensulfothion	31.4	20%	0003S000511	J(detects)/UJ(non-detects)
	RF2000/RTX-35	Guthion	70.3	20%	0003S000520	None (confirmation only)
	RF4000/RTX-35	Coumaphos	36.1	20%		J(detects)/UJ(non-detects)
02/22/95-02/23/95 20:40-01:58	RF250/RTX-5	Mevinphos alpha	25.5	20%	0003S000501	None (confirmation only)
	RF500/RTX-5	Naled	78.9	20%	0003S000507	J(detects)/UJ(non-detects)
	RF1000/RTX-5	Fensulfothion	40.1	20%	0003S000511	None (confirmation only)
	RF2000/RTX-5	Stirophos	45.6	20%	0003S000520	None (confirmation only)
	RF4000/RTX-5	Guthion	57.7	20%		J(detects)/UJ(non-detects)
		Coumaphos	26.0	20%		None (confirmation only)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/14/95 13:38	1000NG/ML / RTX-35	Mevinphos alpha	16.2 (±15%)	005S000101	J(detects)/UJ(non-detects)
		Demeton, o	-60.1 (±15%)	005S000108	J(detects)/UJ(non-detects)
		Phorate	-22.3 (±15%)	005S000112	None (confirmation only)
		Chloropyrifos	-17.1 (±15%)	005S000201	J(detects)/UJ(non-detects)
		Fensulfothion	22.2 (±15%)	005S000208	J(detects)/UJ(non-detects)
		Guthion	20.8 (±15%)	005S000210	J(detects)/UJ(non-detects)
				005S000301	
				005S000307	
02/14/95 13:38	1000NG/ML / RTX-5	Dichlorvos	45.0 (±15%)	005S000101	None (confirmation only)
		Mevinphos alpha	48.2 (±15%)	005S000108	None (confirmation only)
		Demeton, o	37.0 (±15%)	005S000112	None (confirmation only)
		Ethoprop	48.1 (±15%)	005S000201	None (confirmation only)
		Phorate	43.6 (±15%)	005S000208	J(detects)/UJ(non-detects)
		Demeton, s	38.5 (±15%)	005S000210	None (confirmation only)
		Diazinon	47.7 (±15%)	005S000301	None (confirmation only)
		Disulfoton	46.0 (±15%)	005S000307	None (confirmation only)
		Methyl parathion	45.9 (±15%)		None (confirmation only)
		Ronnel	35.1 (±15%)		None (confirmation only)
		Fenthion	49.5 (±15%)		None (confirmation only)
		Chloropyrifos	40.0 (±15%)		None (confirmation only)
		Trichloronate	31.0 (±15%)		None (confirmation only)
		Tokuthion	49.0 (±15%)		None (confirmation only)
		Fensulfothion	65.8 (±15%)		None (confirmation only)
		Stirophos	45.1 (±15%)		None (confirmation only)
		Sulprofos	44.0 (±15%)		None (confirmation only)
		Guthion	48.9 (±15%)		None (confirmation only)
		Coumaphos	52.6 (±15%)		None (confirmation only)
02/15/95 02:53	1000NG/ML / RTX-35	Dichlorvos	-35.9 (±15%)	005S000101	J(detects)/UJ(non-detects)
		Mevinphos alpha	-25.0 (±15%)	005S000108	J(detects)/UJ(non-detects)
		Demeton, o	-64.0 (±15%)	005S000112	J(detects)/UJ(non-detects)
		Phorate	-32.6 (±15%)	005S000201	None (confirmation only)
		Demeton, s	-25.4 (±15%)	005S000208	J(detects)/UJ(non-detects)
		Chloropyrifos	-32.9 (±15%)	005S000210	J(detects)/UJ(non-detects)
		Stirophos	-52.8 (±15%)	005S000301	J(detects)/UJ(non-detects)
		Guthion	-42.9 (±15%)	005S000307	J(detects)/UJ(non-detects)
		Coumaphos	-18.9 (±15%)	005S000317	J(detects)/UJ(non-detects)
				005S000401	
				005C000401	
				005S000405	
				005S000410	
				005S000601	
02/15/95 02:53	1000NG/ML / RTX-5	Dichlorvos	33.9 (±15%)	005S000101	None (confirmation only)
		Mevinphos alpha	35.9 (±15%)	005S000108	None (confirmation only)
		Demeton, o	27.4 (±15%)	005S000112	None (confirmation only)
		Ethoprop	38.7 (±15%)	005S000201	None (confirmation only)
		Naled	18.1 (±15%)	005S000208	J(detect)/UJ(non-detect)
		Phorate	32.8 (±15%)	005S000210	J(detect)/UJ(non-detect)
		Demeton, s	25.3 (±15%)	005S000301	None (confirmation only)
		Diazinon	41.6 (±15%)	005S000307	None (confirmation only)
		Disulfoton	34.0 (±15%)	005S000317	None (confirmation only)
		Methyl parathion	31.4 (±15%)	005S000401	None (confirmation only)
		Fenthion	38.4 (±15%)	005C000401	None (confirmation only)
		Chloropyrifos	20.3 (±15%)	005S000405	None (confirmation only)
		Merphos	-29.3 (±15%)	005S000410	J(detect)/UJ(non-detect)
		Tokuthion	39.9 (±15%)	005S000601	None (confirmation only)
		Fensulfothion	46.3 (±15%)		None (confirmation only)
		Stirophos	29.2 (±15%)		None (confirmation only)
		Sulprofos	32.3 (±15%)		None (confirmation only)
		Coumaphos	30.3 (±15%)		None (confirmation only)

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/15/95 18:52	1000NG/ML / RTX-35	Dichlorvos	-91.4 (±15%)	005S000317	J(detects)/UJ(non-detects)
		Mevinphos alpha	-102.4 (±15%)	005S000401	J(detects)/UJ(non-detects)
		Demeton, o	-93.5 (±15%)	005C000401	J(detects)/UJ(non-detects)
		Phorate	-84.7 (±15%)	005S000405	None (confirmation only)
		Demeton, s	-61.5 (±15%)	005S000410	J(detects)/UJ(non-detects)
		Diazinon	-45.7 (±15%)	005S000601	J(detects)/UJ(non-detects)
		Disulfoton	-19.4 (±15%)		J(detects)/UJ(non-detects)
		Methyl parathion	-70.1 (±15%)		J(detects)/UJ(non-detects)
		Ronnel	-54.1 (±15%)		J(detects)/UJ(non-detects)
		Fenthion	-40.7 (±15%)		J(detects)/UJ(non-detects)
		Chloropyrifos	-116.5 (±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	-48.8 (±15%)		J(detects)/UJ(non-detects)
		Stirophos	-193.3 (±15%)		J(detects)/UJ(non-detects)
		Guthion	-83.2 (±15%)		J(detects)/UJ(non-detects)
		Coumaphos	-92.4 (±15%)		J(detects)/UJ(non-detects)
02/15/95 18:52	1000NG/ML / RTX-5	Dichlorvos	65.5 (±15%)	005S000317	None (confirmation only)
		Mevinphos, alpha	65.0 (±15%)	005S000401	None (confirmation only)
		Demeton, o	51.9 (±15%)	005C000401	None (confirmation only)
		Ethoprop	62.0 (±15%)	005S000405	None (confirmation only)
		Naled	52.0 (±15%)	005S000410	J(detects)/UJ(non-detects)
		Phorate	57.6 (±15%)	005S000601	J(detects)/UJ(non-detects)
		Demeton, s	60.2 (±15%)		None (confirmation only)
		Diazinon	53.1 (±15%)		None (confirmation only)
		Disulfoton	57.1 (±15%)		None (confirmation only)
		Methyl parathion	56.8 (±15%)		None (confirmation only)
		Ronnel	53.9 (±15%)		None (confirmation only)
		Fenthion	60.6 (±15%)		None (confirmation only)
		Chloropyrifos	47.8 (±15%)		None (confirmation only)
		Trichloronate	64.5 (±15%)		None (confirmation only)
		Tokuthion	61.0 (±15%)		None (confirmation only)
		Fensulfothion	65.0 (±15%)		None (confirmation only)
		Stirophos	57.5 (±15%)		None (confirmation only)
		Sulprofos	56.6 (±15%)		None (confirmation only)
		Guthion	37.9 (±15%)		None (confirmation only)
		Coumaphos	55.6 (±15%)		None (confirmation only)
02/23/95 20:41	1000NG/ML / RTX-35	Demeton, s	-18.8 (±15%)	003S000501	J(detects)/UJ(non-detects)
		Methyl parathion	-18.8 (±15%)	003S000507	J(detects)/UJ(non-detects)
		Fensulfothion	-18.3 (±15%)	003S000511	J(detects)/UJ(non-detects)
		Stirophos	-20.4 (±15%)	003S000520	J(detects)/UJ(non-detects)
		Coumaphos	-26.5 (±15%)		J(detects)/UJ(non-detects)
02/23/95 20:41	1000NG/ML / RTX-5	Dichlorvos	26.0 (±15%)	003S000501	None (confirmation only)
		Mevinphos alpha	19.8 (±15%)	003S000507	None (confirmation only)
		Demeton, o	19.9 (±15%)	003S000511	None (confirmation only)
		Ethoprop	16.3 (±15%)	003S000520	None (confirmation only)
		Naled	17.2 (±15%)		J(detects)/UJ(non-detects)
		Phorate	18.4 (±15%)		J(detects)/UJ(non-detects)
		Diazinon	20.6 (±15%)		None (confirmation only)
		Disulfoton	17.2 (±15%)		None (confirmation only)
		Methyl parathion	17.9 (±15%)		None (confirmation only)
		Ronnel	20.3 (±15%)		None (confirmation only)
		Chloropyrifos	19.2 (±15%)		None (confirmation only)
		Trichloronate	16.1 (±15%)		None (confirmation only)
		Merphos	32.2 (±15%)		None (confirmation only)
		Fensulfothion	31.8 (±15%)		J(detects)/UJ(non-detects)
		Guthion	26.4 (±15%)		None (confirmation only)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

No field blank was analyzed.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
005S000307	RTX-35	Naled	9 (50-150%)	6 (50-150%)	42 (≤25%)	None (confirmation only)
		Merphos	16 (50-150%)	22 (50-150%)	35 (≤25%)	None (confirmation only)
		Guthion	184 (50-150%)	214 (50-150%)		None (confirmation only)
005S000307	RTX-5	Dichlorvos	45 (50-150%)	41 (50-150%)		None (confirmation only)
		Demeton, o	45 (50-150%)	43 (50-150%)		None (confirmation only)
		Ethoprop	39 (50-150%)	36 (50-150%)		None (confirmation only)
		Phorate	39 (50-150%)	39 (50-150%)		J(detects)/UJ(non-detects)
		Naled			41 (≤25%)	J(detects)/UJ(non-detects)
		Demeton, s	39 (50-150%)	36 (50-150%)		None (confirmation only)
		Diazinon	39 (50-150%)	34 (50-150%)		None (confirmation only)
		Disulfoton	45 (50-150%)	39 (50-150%)		None (confirmation only)
		Methyl parathion	45 (50-150%)	43 (50-150%)		None (confirmation only)
		Fenthion	41 (50-150%)	39 (50-150%)		None (confirmation only)
		Chloropyrifos	0 (50-150%)	0 (50-150%)		None (confirmation only)
		Trichloronate	43 (50-150%)			None (confirmation only)
		Merphos	25 (50-150%)	27 (50-150%)		J(detects)/UJ(non-detects)
		Tokuthion	41 (50-150%)	39 (50-150%)		None (confirmation only)
		Fensulfothion		0 (50-150%)	200 (≤25%)	None (confirmation only)
		Sulprofos		41 (50-150%)		None (confirmation only)
		Ronnel		48 (50-150%)		None (confirmation only)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
OPLCS01203S	RTX-5	Chloropyrifos	0.0 (50-150%)	0.00 (30.48-30.6)	005S000101	None (confirmation only)
		Merphos	0.0 (50-150%)	0.00 (32.77-32.97)	005S000108	J(detects)/R(non-detects)
					005S000112	
					005S000201	
					005S000208	
					005S000210	
					005S000301	
					005S000307	
					005S000317	
					005S000401	
					005C000401	
					005S000405	
					005S000410	
					005S000601	

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
OPLCS01203S	RTX-35	Naled Merphos	4.1 (50-150%) 0.0 (50-150%)	0.00 (37.50-37.65)	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	None (confirmation only) None (confirmation only)
NLCS202065	RTX-35	Merphos Guthion	0.0 (50-150%) 32.0 (50-150%)	0.00 (37.44-37.59)	003S000501 003S000507 003S000511 003S000520	None (confirmation only) None (confirmation only)
NLCS202065	RTX-5	Merphos Stirophos Guthion	0.0 (50-150%) 46.7 (50-150%) 33.8 (50-150%)	0.00 (32.65-32.85)	003S000501 003S000507 003S000511 003S000520	J(detects)/R(non-detects) None (confirmation only) J(detects)/UJ(non-detects)

IX. ESTERIFICATION SPIKE SAMPLE

No esterification spike samples were analyzed for this SDG.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1314

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	Naled Merphos Guthion Mevinphos alpha Demeton, o Fensulfothion Stirophos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Initial calibration %RSD
FD1314	003S000501 003S000507 003S000511 003S000520	Naled Guthion Mevinphos alpha Fensulfothion Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Initial calibration %RSD
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307	Phorate Guthion Mevinphos alpha Demeton, o Chloropyrifos Fensulfothion	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	Naled Phorate Merphos Dichlorvos Mevinphos alpha Demeton, o Demeton, s Chloropyrifos Stirophos Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	Naled Phorate Guthion Dichlorvos Mevinphos alpha Demeton, o Demeton, s Diazinon Disulfoton Methyl parathion Ronnel Fenthion Chloropyrifos Fensulfothion Stirophos Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1314	003S000501 003S000507 003S000511 003S000520	Naled Phorate Merphos Guthion Methyl parathion Demeton, s Fensulfothion Stirophos Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D

SDG N°	Sample ID	Parameter	Flag	Reason
FD1314	005S000307	Naled Phorate Merphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Matrix spike/matrix spike duplicate %R & RPD
FD1314	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307 005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	Merphos	J(detects)/R(non-detects)	Laboratory control sample %R
FD1314	003S000501 003S000507 003S000511 003S000520	Merphos Guthion	J(detects)/R(non-detects) J(detects)/UJ(non-detects)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	GLYCOL
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00263 95.00264 (Level III Validation)
Case Nº:	FD1314

Sample Identification	Matrix
005S000101	Soil
005S000108	Soil
005S000112	Soil
005S000201	Soil
005S000208	Soil
005S000210	Soil
005S000301	Soil
005S000307	Soil
005S000317	Soil
005S000401	Soil
005C000401	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 14 soil samples listed on the cover page. The analyses were per Modified 8015 protocol based on USEPA Method 8015, SW 846, 3rd Ed., 1986 as described in LUFT Field Manual, Oct. 1989, CA.

This review follows the approach of USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

No raw data checks were carried out for this SDG, the review was based on QC data.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the average initial calibration and the continuing calibration were within ±15.0 percent except for the following:

Date/ Time	Parameter	RPD (QC Limit)	%D (QC Limit)	Associated Samples	Flag
02/24/95 01:42	Tetraethylene glycol Triethylene glycol		58.2(≤15%) 30.7(≤15%)	005S000101 005S000108 005S000112 005S000201 005S000208 005S000210 005S000301 005S000307	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/24/95 06:43	Tetraethylene glycol Triethylene glycol		50.3(≤15%) 25.8(≤15%)	005S000317 005S000401 005C000401 005S000405 005S000410 005S000601	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/24/95 09:18	Tetraethylene glycol		31.9(≤15%)	None in FD1314	None
02/24/95 18:58	Tetraethylene glycol Triethylene glycol		41.9(≤15%) 31.1≤15%)	None in FD1314	None

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank.

No field blank was analyzed.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was/were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Parameter	MS %R (Limit)	MSD %R (Limit)	RPD (Limit)	Flag
005S000307	Tetraethylene glycol Triethylene glycol Diethylene glycol	0% (40-120%) 8% (40-120%) 19% (40-120%)	14% (40-120%) 8% (40-120%) 34% (40-120%)	200% (13%) 57% (33%)	J(detect)/UJ(non-detect) J(detect)/R(non-detect) J(detect)/UJ(non-detect)

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00263 & 95.00264 (Level III Validation)
Case Nº:	FD1314

Sample Identification	Matrix
003S000501	Soil
003S000507	Soil
003S000511	Soil
003S000520	Soil
005S000101	Soil
005S000108	Soil
005S000112	Soil
005S000201	Soil
005S000208	Soil
005S000210	Soil
005S000301	Soil
005S000307	Soil
005S000317	Soil
005S000401	Soil
005C000401	Soil
005S000405	Soil
005S000410	Soil
005S000601	Soil

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X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were properly identified.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

SDG N°	Sample ID	Parameter	Flag	Reason
FD1311	003S000107	Demeton, o Demeton, s Fensulfothion Naled Merphos Guthion	J(detects)/None(non-detects) J(detects)/UJ(non-detects) J(detects)/None(non-detects) J(detects)/R(non-detects) J(detects)/UJ(non-detects) J(detects)/None(non-detects)	Matrix spike/matrix spike duplicate %R
FD1311	003S000101 003S000107 003S000114 003S000201 003S000208 003S000214 003C000214	Demeton, o Demeton, s Merphos Fensulfothión Naled	J(detects)/None(non-detects) J(detects)/UJ(non-detects) J(detects)/R(non-detects) J(detects)/None(non-detects) J(detects)/UJ(non-detects)	Laboratory control sample %R
FD1311	003S000301 003S000307 003S000311	Naled Phorate Guthion Dichlorvos Mevinphos, alpha Demeton, o Demeton, s Methyl parathion Chloropyrifos Merphos Fensulfothion Stirophos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/UJ(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/UJ(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects)	Laboratory control sample %R
FD1311	003S000401 003S000407 003S000412	Merphos	J(detects)/R(non-detects)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	GENERAL INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00253 (Level III Validation)
SDG Nº:	FD1311

Sample Identification	Matrix
003SDESIGN	Soil

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INTRODUCTION

This data review report covers 18 soil samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within $\pm$15.0 percent.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s).

No field blank was analyzed.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Not applicable.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

Not applicable.

VIII. QUANTITATION AND REPORTED CROLs

No raw data were reviewed.

IX. FIELD DUPLICATE

One set of field duplicates was/were analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1314

No data were qualified for this SDG.

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 HERB						
SAMPLE ID ------->	003-S-0005-01	003-S-0005-07	003-S-0005-11	003-S-0005-20	005-S-0001-01	005-S-0001-08
ORIGINAL ID ----->	003S000501	003S000507	003S000511	003S000520	005S000101	005S000108
LAB SAMPLE ID --->	115967	115968	115969	115970	115971	115972
SAMPLE DATE ----->	01/30/95	01/30/95	01/30/95	01/30/95	01/28/95	01/28/95
DATE EXTRACTED -->				02/09/95		
DATE ANALYZED --->				02/25/95	02/18/95	02/18/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
94-82-6 2,4-DB	9.5 UJ	9.5 UJ	9.5 UJ	9.5 UJ	12. U	12. U
88-85-7 Dinoseb	4.8 UR	4.7 UR	4.7 UR	4.7 UR	5.9 UR	6.2 UR
93-76-5 2,4,5-T	4.8 UJ	4.7 UJ	0.95 UJ	0.95 UJ	1.2 U	1.2 U
93-72-1 2,4,5-TP (Silvex)	0.95 UJ	0.95 UJ	0.95 UJ	0.95 UJ	1.2 U	1.2 U
75-99-0 Dalapon	23. UJ	23. UJ	23. UJ	23. UJ	28. U	30. U
1918-00-9 Dicamba	0.94 UJ	0.94 UJ	0.94 UJ	9.4 UJ	1.2 U	1.2 U
120-36-5 Dichlorprop	9.4 UJ	9.4 UJ	9.4 UJ	4.7 UJ	12. U	12. U
94-74-6 MCPA	940. UJ	7100. J	4300. J	940. UJ	19000. J	1200. UJ
93-65-2 MCPP	940. UJ	940. UJ	940. UJ	940. UJ	1200. UJ	1200. UJ
94-75-7 2,4-D	9.4 UJ	9.4 UJ	9.4 UJ	9.4 UJ	12. U	12. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 HERB													
	SAMPLE ID ------->	005-S-0001-12		005-S-0002-01		005-S-0002-08		005-S-0002-10		005-S-0003-01		005-S-0003-07	
	ORIGINAL ID ----->	005S000112		005S000201		005S000208		005S000210		005S000301		005S000307	
	LAB SAMPLE ID --->	115973		115974		115975		115976		115977		115978	
	SAMPLE DATE ----->	01/28/95		01/28/95		01/28/95		01/28/95		01/28/95		01/28/95	
	DATE ANALYZED --->	02/18/95		02/23/95		02/23/95		02/18/95		02/23/95		02/15/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	12.	U	12.	U	12.	U	12.	U	12.	U	13.	U
88-85-7	Dinoseb	6.1	UR	5.9	UR	6.1	UR	6.1	UR	6.2	UR	6.6	UR
93-76-5	2,4,5-T	1.2	U	1.2	U	4.4	J	1.2	U	1.2	U	1.3	U
93-72-1	2,4,5-TP (Silvex)	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.3	U
75-99-0	Dalapon	29.	U	29.	U	30.	U	29.	U	30.	U	32.	UR
1918-00-9	Dicamba	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.3	U
120-36-5	Dichlorprop	12.	U	12.	U	12.	U	12.	U	12.	U	13.	U
94-74-6	MCPA	1200.	UJ	1200.	UJ	4500.	J	1200.	UJ	1200.	UJ	1300.	UJ
93-65-2	MCPP	1200.	UJ	1200.	UJ	1200.	UJ	1200.	UJ	1200.	UJ	1300.	UR
94-75-7	2,4-D	12.	U	12.	U	12.	U	12.	U	12.	U	13.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 HERB													
	SAMPLE ID ------->	005-S-0003-17		005-S-0004-01		005-C-0004-01		005-S-0004-05		005-S-0004-10		005-S-0006-01	
	ORIGINAL ID ----->	005S000317		005S000401		005C000401		005S000405		005S000410		005S000601	
	LAB SAMPLE ID --->	115979		115980		115981		115982		115983		115984	
	SAMPLE DATE ----->	01/28/95		01/29/95		01/29/95		01/28/95		01/28/95		01/29/95	
	DATE ANALYZED --->			02/24/95						02/24/95		02/24/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ
88-85-7	Dinoseb	4.7	UR	4.7	UR	4.7	UR	4.7	UR	4.7	UR	4.7	UR
93-76-5	2,4,5-T	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ
93-72-1	2,4,5-TP (Silvex)	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U
75-99-0	Dalapon	23.	U	23.	U	23.	U	23.	U	23.	U	23.	U
1918-00-9	Dicamba	0.94	U	0.94	U	0.94	U	0.94	UJ	0.94	UJ	0.94	UJ
120-36-5	Dichlorprop	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ
94-75-7	2,4-D	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 HYDROCARBN						
SAMPLE ID ------->	005-S-0001-01	005-S-0001-08	005-S-0001-12	005-S-0002-01	005-S-0002-08	005-S-0002-10
ORIGINAL ID ----->	005S000401	005S000108	005S000112	005S000201	005S000208	005S000210
LAB SAMPLE ID --->	115971	115972	115973	115974	115975	115976
SAMPLE DATE ----->	01/29/95	01/28/95	01/28/95	01/28/95	01/28/95	01/28/95
DATE ANALYZED --->	02/15/95	02/24/95	02/14/95	02/14/95	02/14/95	02/15/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
107-21-1 Ethylene glycol	15000. UJ	13000. UJ	16000. UJ	17000. UJ	16000. UJ	14000. UJ
111-46-6 Diethylene Glycol	15000. UJ	13000. UJ	16000. UJ	17000. UJ	16000. UJ	14000. UJ
112-27-6 Triethylene Glycol	15000. UJ	13000. UJ	16000. UJ	17000. UJ	16000. UJ	14000. UJ
112-60-7 Tetraethylene Glycol	15000. UJ	13000. UJ	16000. UJ	17000. UJ	16000. UJ	14000. UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 HYDROCARBN													
	SAMPLE ID ------->	005-S-0003-01		005-S-0003-07		005-S-0003-17		005-S-0004-01		005-C-0004-01		005-S-0004-05	
	ORIGINAL ID ----->	005S000301		005S000307		005S000317		005S000401		005C000401		005S000405	
	LAB SAMPLE ID --->	115977		115978		115979		115980		115981		115982	
	SAMPLE DATE ----->	01/28/95		01/28/95		01/28/95		01/29/95		01/29/95		01/28/95	
	DATE EXTRACTED -->									02/04/95			
	DATE ANALYZED --->	02/15/95		02/15/95		02/15/95		02/24/95		02/15/95		02/15/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
107-21-1	Ethylene glycol	10000.	UJ	10000.	UJ	8000.	UJ	19000.	UJ	16000.	UJ	13000.	UJ
111-46-6	Diethylene Glycol	10000.	UJ	10000.	UJ	8000.	UJ	19000.	UJ	16000.	UJ	13000.	UJ
112-27-6	Triethylene Glycol	10000.	UJ	10000.	UR	8000.	UJ	19000.	UJ	16000.	UJ	13000.	UJ
112-60-7	Tetraethylene Glycol	10000.	UJ	10000.	UJ	8000.	UJ	19000.	UJ	16000.	UJ	13000.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 HYDROCARBN							
	SAMPLE ID ------->	005-S-0004-10		005-S-0006-01			
	ORIGINAL ID ----->	005S000410		005S000601			
	LAB SAMPLE ID --->	115983		115984			
	SAMPLE DATE ----->	01/28/95		01/28/95			
	DATE ANALYZED --->	02/15/95		02/15/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A		
CAS #	Parameter						
107-21-1	Ethylene glycol	12000.	UJ	9800.	UJ		
111-46-6	Diethylene Glycol	12000.	UJ	9800.	UJ		
112-27-6	Triethylene Glycol	12000.	UJ	9800.	UJ		
112-60-7	Tetraethylene Glycol	12000.	UJ	9800.	UJ		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 METAL	SAMPLE ID ------->	003-S-0005-01		003-S-0005-07		003-S-0005-11		003-S-0005-20		005-S-0001-01		005-S-0001-08	
	ORIGINAL ID ----->	003S000501		003S000507		003S000511		003S000520		005S000101		005S000108	
	LAB SAMPLE ID --->	115985S		115986S		115987S		115988S		115989S		115990S	
	SAMPLE DATE ----->	01/30/95						01/30/95		01/28/95		01/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A		A		A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	10.2	UJ	10.3	UJ	10.3	UJ	10.5	UJ	9.9	UJ	10.4	UJ
AS	Arsenic	7.1		3.7		14.2		2.1	J	7.2		10.3	
BA	Barium	145.	J	303.	J	280.	J	58.5	J	93.5	J	162.	J
BE	Beryllium	0.59	J	0.85	J	0.58	J	0.44	J	0.56	J	0.51	J
CD	Cadmium	2.2		3.		3.7		2.2		3.2		3.1	
CR	Chromium	11.8		15.3		13.		13.9		13.		12.4	
CO	Cobalt	8.1	J	7.1	J	14.		3.8	J	13.3		7.3	J
CU	Copper	12.5		14.3		14.7		9.6		14.1		16.5	
PB	Lead	16.	J	10.5	J	16.	J	6.9	J	11.4	J	10.8	J
HG	Mercury	0.13	U	0.13	U	0.13	U	0.13	U	0.13		0.13	U
NI	Nickel	14.		18.9		21.9		7.2	J	11.3		19.	
SE	Selenium	0.78	J	0.52	UJ	0.52	UJ	0.53	UJ	0.51	J	0.52	UJ
AG	Silver	0.77	U	0.95	J	0.78	U	0.79	U	1.2	J	0.78	U
TL	Thallium	0.51	U	0.52	U	0.52	U	0.53	U	0.49	U	0.52	U
V	Vanadium	25.6		20.1		21.3		22.6		36.		25.9	
ZN	Zinc	48.8		64.4		63.1		35.7		46.2		54.6	
SN	Tin	7.5	U	7.3	U	9.3	U	8.5	U	3.7	U	5.9	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 METAL													
	SAMPLE ID ------->	005-S-0001-12		005-S-0002-01		005-S-0002-08		005-S-0002-10		005-S-0003-01		005-S-0003-07	
	ORIGINAL ID ----->	005S000112		005S000201		005S000208		005S000210		005S000301		005S000307	
	LAB SAMPLE ID --->	115991S		115992S		115993S		115994S		115995S		115996S	
	SAMPLE DATE ----->	01/28/95		01/28/95		01/28/95		01/28/95		01/28/95		01/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	10.1	UJ	9.8	UJ	10.1	UJ	10.2	UJ	10.2	UJ	11.	UJ
AS	Arsenic	7.8	J	6.7	J	12.2	J	10.1	J	6.6	J	8.1	J
BA	Barium	123.	J	55.5	J	171.	J	116.	J	164.	J	177.	J
BE	Beryllium	0.4	J	0.43	J	0.55	J	0.44	J	0.86	J	0.9	J
CD	Cadmium	2.4		2.4		3.7		2.8		3.		2.3	
CR	Chromium	9.2		12.8		12.5		10.2		11.1		11.1	
CO	Cobalt	6.7	J	5.5	J	9.4	J	7.4	J	6.5	J	6.2	J
CU	Copper	13.8		13.3		18.9		16.3		14.3		16.2	
PB	Lead	6.6	J	12.	J	11.9	J	11.7	J	16.7	J	18.2	J
HG	Mercury	0.13	U	0.12	U	0.13	U	0.13	U	0.13	U	0.14	U
NI	Nickel	16.1		11.5		25.		14.8		14.4		11.4	
SE	Selenium	0.51	UJ	0.49	UJ	0.5	UJ	0.51	UJ	0.51	UJ	0.55	UJ
AG	Silver	0.76	U	0.74	U	0.75	U	0.77	U	0.76	U	0.82	U
TL	Thallium	0.51	U	0.49	U	0.5	U	0.51	U	0.51	U	0.55	U
V	Vanadium	16.		28.7		26.2		19.2		23.3		20.1	
ZN	Zinc	46.6		44.3		64.3		54.		56.9		64.3	
SN	Tin	6.5	U	7.9	U	10.5	U	15.3	U	11.7	U	5.2	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 METAL						
SAMPLE ID ------->	005-S-0003-17	005-S-0004-01	005-C-0004-01	005-S-0004-05	005-S-0004-10	005-S-0006-01
ORIGINAL ID ----->	005S000317	005S000401	005C000401	005S000405	005S000410	005S000601
LAB SAMPLE ID --->	115997S	115998S	115999S	116000S	116001S	116002S
SAMPLE DATE ----->	01/28/95	01/29/95	01/29/95	01/28/95	01/28/95	01/29/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
SB Antimony	10.4 UJ	10.2 UJ	10.1 UJ	10.2 UJ	10.2 UJ	10.1 UJ
AS Arsenic	9.5 J	11. J	7.9 J	2.7 J	6.5 J	8.3 J
BA Barium	104. J	261. J	238. J	219. J	286. J	192. J
BE Beryllium	0.53 J	0.81 J	1. J	0.77 J	0.56 J	0.72 J
CD Cadmium	2.7	3.4	4.	3.	3.6	3.2
CR Chromium	16.7	15.2	18.3	17.2	15.1	20.
CO Cobalt	7.8 J	7.6 J	9.9 J	6.1 J	13.6	8.1 J
CU Copper	16.1	16.1	19.6	18.7	17.6	17.4
PB Lead	10.7 J	22.8 J	26.8 J	8. J	8.4 J	16.9 J
HG Mercury	0.13 U	0.14	0.13 U	0.13 U	0.13 U	0.13 U
NI Nickel	18.4	16.1	20.7	15.1	18.9	14.5
SE Selenium	0.52 UJ	0.6 UJ	0.51 UJ	0.51 UJ	0.51 UJ	0.5 J
AG Silver	0.78 U	0.76 U	0.76 U	0.76 U	0.76 U	1.1 J
TL Thallium	0.52 U	0.51 U	0.51 U	0.51 U	0.51 U	0.5 U
V Vanadium	26.1	27.3	34.2	24.6	25.9	24.8
ZN Zinc	60.6	75.6	90.2	76.9	63.9	63.5
SN Tin	7.1 U	7. U	7.5 U	3.8 U	7.5 U	3.8 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 METAL-CN						
SAMPLE ID ------->	003-S-0005-01	003-S-0005-07	003-S-0005-11	003-S-0005-20	005-S-0001-01	005-S-0001-08
ORIGINAL ID ----->	003S000501	003S000507	003S000511	003S000520	005S000101	005S000108
LAB SAMPLE ID --->	115985	115986	115987	115988	115989	115990
SAMPLE DATE ----->	01/30/95	01/30/95	01/30/95	01/30/95	01/28/95	01/28/95
DATE EXTRACTED -->	02/06/95	02/06/95	02/06/95	02/06/95	02/01/95	02/01/95
DATE ANALYZED --->	02/13/95	02/13/95	02/13/95	02/13/95	02/02/95	02/02/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.63 U	0.65 U	0.62 U	0.66 U	0.62 U	0.65 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 METAL-CN						
SAMPLE ID ------->	005-S-0001-12	005-S-0002-01	005-S-0002-08	005-S-0002-10	005-S-0003-01	005-S-0003-07
ORIGINAL ID ----->	005S000112	005S000201	005S000208	005S000210	005S000301	005S000307
LAB SAMPLE ID --->	115991	115992	115993	115994	115995	115996
SAMPLE DATE ----->	01/28/95	01/28/95	01/28/95	01/28/95	01/28/95	01/28/95
DATE EXTRACTED -->	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95
DATE ANALYZED --->	02/10/95	02/10/95	02/10/95	02/10/95	02/10/95	02/10/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.5 U	0.51 U	0.5 U	0.56 U	0.64 U	0.69 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 METAL-CN							
SAMPLE ID ------->	005-S-0003-17	005-S-0004-01	005-C-0004-01	005-S-0004-05	005-S-0004-10	005-S-0006-01
ORIGINAL ID ----->	005S000317	005S000401	005C000401	005S000405	005S000410	005S000601
LAB SAMPLE ID --->	115997	115998	115999	116000	116001	116002
SAMPLE DATE ----->	01/28/95	01/29/95	01/29/95	01/28/95	01/28/95	01/29/95
DATE EXTRACTED -->	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95	02/02/95
DATE ANALYZED --->	02/10/95	02/10/95	02/10/95	02/10/95	02/10/95	02/10/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.65 U	0.64 U	0.63 U	0.61 U	0.61 U	0.61 U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 OP PEST													
	SAMPLE ID ------->	003-S-0005-01		003-S-0005-07		003-S-0005-11		003-S-0005-20		005-S-0001-01		005-S-0001-08	
	ORIGINAL ID ----->	003S000501		003S000507		003S000511		003S000520		005S000101		005S000108	
	LAB SAMPLE ID --->	115967		115968		115969		115970		115971		115972	
	SAMPLE DATE ----->	01/30/95		01/30/95		01/30/95		01/30/95		01/28/95		01/28/95	
	DATE EXTRACTED -->	02/07/95		02/07/95		02/07/95		02/07/95		02/04/95		02/04/95	
	DATE ANALYZED --->	02/23/95		02/23/95		02/23/95		02/23/95		02/14/95		02/14/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	210.	UJ	220.	UJ	220.	UJ	220.	UJ	210.	UJ	210.	UJ
35400-43-2	Sulprofos	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
2921-88-2	Chloropyrifos	110.	U	110.	U	110.	U	110.	U	110.	UJ	110.	UJ
56-72-4	Coumaphos	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
8065-48-3	Demeton,O	110.	U	110.	U	110.	U	110.	U	110.	UJ	110.	UJ
333-41-5	Diazinon	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
62-73-7	Dichlorvos	110.	U	110.	U	110.	U	110.	U	110.	UJ	110.	UJ
298-04-4	Disulfoton	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
13194-48-4	Ethoprop	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
115-90-2	Fensulfothion	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
55-38-9	Fenthion	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
150-50-5	Merphos	110.	UR	110.	UR	110.	UR	110.	UR	110.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
300-76-5	Naled	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
298-00-0	Methyl parathion	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	U	110.	U
298-02-2	Phorate	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
299-84-3	Ronnel	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
34643-46-4	Tokuthion	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
327-98-0	Trichloronate	110.	U	110.	U	110.	U	110.	U	110.	U	110.	U
126-75-0	Demeton,S	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 OP PEST													
	SAMPLE ID ------->	005-S-0001-12		005-S-0002-01		005-S-0002-08		005-S-0002-10		005-S-0003-01		005-S-0003-07	
	ORIGINAL ID ----->	005S000112		005S000201		005S000208		005S000210		005S000301		005S000307	
	LAB SAMPLE ID --->	115973		115974		115975		115976		115977		115978	
	SAMPLE DATE ----->	01/28/95		01/28/95		01/28/95		01/28/95		01/28/95		01/28/95	
	DATE EXTRACTED -->	02/04/95		02/04/95		02/04/95		02/04/95		02/04/95		02/04/95	
	DATE ANALYZED --->	02/14/95		02/14/95		02/14/95		02/14/95		02/14/95		02/14/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	210.	UJ	200.	UJ	210.	UJ	210.	UJ	210.	UJ	210.	UJ
35400-43-2	Sulprofos	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
2921-88-2	Chloropyrifos	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
56-72-4	Coumaphos	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
8065-48-3	Demeton,O	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
333-41-5	Diazinon	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
62-73-7	Dichlorvos	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
298-04-4	Disulfoton	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
13194-48-4	Ethoprop	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
115-90-2	Fensulfothion	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
55-38-9	Fenthion	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
150-50-5	Merphos	100.	UR	100.	UR	110.	UR	110.	UR	110.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
300-76-5	Naled	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
298-00-0	Methyl parathion	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
298-02-2	Phorate	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
299-84-3	Ronnel	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ
34643-46-4	Tokuthion	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
327-98-0	Trichloronate	100.	U	100.	U	110.	U	110.	U	110.	U	110.	U
126-75-0	Demeton,S	100.	UJ	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 OP PEST													
	SAMPLE ID ------->	005-S-0003-17		005-S-0004-01		005-C-0004-01		005-S-0004-05		005-S-0004-10		005-S-0006-01	
	ORIGINAL ID ----->	005S000317		005S000401		005C000401		005S000405		005S000410		005S000601	
	LAB SAMPLE ID --->	115979		115980		115981		115982		115983		115984	
	SAMPLE DATE ----->	01/28/95		01/29/95		01/29/95		01/28/95		01/28/95		01/29/95	
	DATE EXTRACTED -->	02/04/95		02/04/95		02/04/95		02/04/95		02/04/95		02/04/95	
	DATE ANALYZED --->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	220.	UJ	200.	UJ	210.	UJ	210.	UJ	200.	UJ	210.	UJ
35400-43-2	Sulprofos	110.	U	100.	U	110.	U	100.	U	100.	U	110.	U
2921-88-2	Chloropyrifos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
56-72-4	Coumaphos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
8065-48-3	Demeton,O	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
333-41-5	Diazinon	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
62-73-7	Dichlorvos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
298-04-4	Disulfoton	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
13194-48-4	Ethoprop	110.	U	100.	U	110.	U	100.	U	100.	U	110.	U
115-90-2	Fensulfothion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
55-38-9	Fenthion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
150-50-5	Merphos	110.	UR	100.	UR	110.	UR	100.	UR	100.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
300-76-5	Naled	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
298-00-0	Methyl parathion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
298-02-2	Phorate	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
299-84-3	Ronnel	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ
34643-46-4	Tokuthion	110.	U	100.	U	110.	U	100.	U	100.	U	110.	U
327-98-0	Trichloronate	110.	U	100.	U	110.	U	100.	U	100.	U	110.	U
126-75-0	Demeton,S	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ	110.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 PEST													
	SAMPLE ID ------->	003-S-0005-01		003-S-0005-07		003-S-0005-11		003-S-0005-20		005-S-0001-01		005-S-0001-08	
	ORIGINAL ID ----->	003S000501		003S000507		003S000511		003S000520		005S000101		005S000108	
	LAB SAMPLE ID --->	115985		115986		115987		115988		115989		115990	
	SAMPLE DATE ----->	01/30/95		01/30/95		01/30/95		01/30/95		01/28/95		01/28/95	
	DATE EXTRACTED -->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE ANALYZED --->	02/16/95		02/17/95		02/17/95		02/17/95		02/17/95		02/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.3	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.2	UJ
319-85-7	beta-BHC	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
319-86-8	delta-BHC	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
58-89-9	gamma-BHC (Lindane)	2.3	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.2	UJ
76-44-8	Heptachlor	2.3	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.2	UJ
309-00-2	Aldrin	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
1024-57-3	Heptachlor epoxide	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
959-98-8	Endosulfan I	2.3	U	2.2	U	2.2	U	2.2	U	2.2	UJ	2.2	UJ
60-57-1	Dieldrin	23.	J	4.2	UJ	4.3	UJ	4.2	UJ	22.	J	4.2	UJ
72-55-9	4,4'-DDE	4.4	U	4.2	U	4.3	U	4.2	U	4.2	U	4.2	U
72-20-8	Endrin	4.4	UJ	4.2	UJ	4.3	UJ	4.2	UJ	4.2	U	4.2	U
33213-65-9	Endosulfan II	4.4	U	4.2	U	4.3	U	4.2	U	4.2	U	4.2	U
72-54-8	4,4'-DDD	4.4	UJ	4.2	UJ	4.3	UJ	4.2	UJ	4.2	U	4.2	U
1031-07-8	Endosulfan sulfate	4.4	U	4.2	U	4.3	U	4.2	U	4.2	U	4.2	U
50-29-3	4,4'-DDT	4.4	UJ	4.2	UJ	4.3	UJ	4.2	UJ	4.2	UJ	4.2	UJ
72-43-5	Methoxychlor	23.	U	22.	U	22.	U	22.	U	22.	U	22.	U
53494-70-5	Endrin ketone	4.4	U	4.2	U	4.3	U	4.2	U	4.2	U	4.2	U
7421-36-3	Endrin aldehyde	4.4	U	4.2	U	4.3	U	4.2	U	4.2	U	4.2	U
5103-71-9	alpha-Chlordane	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
5103-74-2	gamma-Chlordane	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
8001-35-2	Toxaphene	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U
12674-11-2	Aroclor-1016	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U
11104-28-2	Aroclor-1221	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U
11141-16-5	Aroclor-1232	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U
53469-21-9	Aroclor-1242	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U
12672-29-6	Aroclor-1248	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U
11097-69-1	Aroclor-1254	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U
11096-82-5	Aroclor-1260	44.	U	42.	U	43.	U	42.	U	42.	U	42.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 PEST													
	SAMPLE ID ------->	005-S-0001-12		005-S-0002-01		005-S-0002-08		005-S-0002-10		005-S-0003-01		005-S-0003-07	
	ORIGINAL ID ----->	005S000112		005S000201		005S000208		005S000210		005S000301		005S000307	
	LAB SAMPLE ID --->	115991		115992		115993		115994		115995		115996	
	SAMPLE DATE ----->	01/28/95		01/28/95		01/28/95		01/28/95		01/28/95		01/28/95	
	DATE EXTRACTED -->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE ANALYZED --->	02/17/95		02/17/95		02/17/95		02/17/95		02/28/95		02/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.1	UJ	2.1	UJ	2.2	UJ	2.2	UJ	2.2	U	2.3	UJ
319-85-7	beta-BHC	2.1	U	2.1	U	2.2	U	2.2	U	2.2	U	2.3	U
319-86-8	delta-BHC	2.1	U	2.1	U	2.2	U	2.2	U	2.2	U	2.3	U
58-89-9	gamma-BHC (Lindane)	2.1	UJ	2.1	UJ	2.2	UJ	2.2	UJ	2.2	U	2.3	UJ
76-44-8	Heptachlor	2.1	UJ	2.1	UJ	2.2	UJ	2.2	UJ	2.2	U	2.3	UJ
309-00-2	Aldrin	2.1	U	2.1	U	2.2	U	2.2	U	2.2	U	2.3	U
1024-57-3	Heptachlor epoxide	2.1	U	2.1	U	2.2	U	2.2	U	11.	UD	2.3	U
959-98-8	Endosulfan I	2.1	UJ	2.1	UJ	2.2	UJ	2.2	UJ	2.2	U	2.3	UJ
60-57-1	Dieldrin	4.1	UJ	43.	J	4.2	UJ	4.3	UJ	60.	JD	45.	J
72-55-9	4,4'-DDE	4.1	U	4.1	U	4.2	U	4.3	U	4.3	U	4.5	U
72-20-8	Endrin	4.1	U	4.1	U	4.2	U	4.3	U	4.3	U	4.5	U
33213-65-9	Endosulfan II	4.1	U	4.1	U	4.2	U	4.3	U	4.3	UJ	4.5	U
72-54-8	4,4'-DDD	4.1	U	4.1	U	4.2	U	4.3	U	4.3	U	4.5	U
1031-07-8	Endosulfan sulfate	4.1	U	4.1	U	4.2	U	4.3	U	4.3	U	4.5	U
50-29-3	4,4'-DDT	4.1	UJ	4.1	UJ	4.2	UJ	4.3	UJ	4.3	U	4.5	UJ
72-43-5	Methoxychlor	21.	U	21.	U	22.	U	22.	U	22.	U	23.	U
53494-70-5	Endrin ketone	4.1	U	4.1	U	4.2	U	4.3	U	4.3	U	4.5	U
7421-36-3	Endrin aldehyde	4.1	U	4.1	U	4.2	U	4.3	U	4.3	UJ	4.5	U
5103-71-9	alpha-Chlordane	2.1	U	2.1	U	2.2	U	2.2	U	2.2	U	2.3	U
5103-74-2	gamma-Chlordane	2.1	U	2.1	U	2.2	U	2.2	U	2.2	U	2.3	U
8001-35-2	Toxaphene	41.	U	41.	U	42.	U	43.	U	43.	U	45.	U
12674-11-2	Aroclor-1016	41.	U	41.	U	42.	U	43.	U	43.	U	45.	U
11104-28-2	Aroclor-1221	41.	U	41.	U	42.	U	43.	U	43.	U	45.	U
11141-16-5	Aroclor-1232	41.	U	41.	U	42.	U	43.	U	43.	U	45.	U
53469-21-9	Aroclor-1242	41.	U	41.	U	42.	U	43.	U	43.	U	45.	U
12672-29-6	Aroclor-1248	41.	U	41.	U	42.	U	43.	U	43.	U	45.	U
11097-69-1	Aroclor-1254	41.	U	41.	U	42.	U	43.	U	43.	U	45.	U
11096-82-5	Aroclor-1260	41.	U	41.	U	42.	U	43.	U	57.	J	45.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 PEST						
SAMPLE ID ------->	005-S-0003-17	005-S-0004-01	005-C-0004-01	005-S-0004-05	005-S-0004-10	005-S-0006-01
ORIGINAL ID ----->	005S000317	005S000401	005C000401	005S000405	005S000410	005S000601
LAB SAMPLE ID --->	115997	115998	115999	116000	116001	116002
SAMPLE DATE ----->	01/28/95	01/29/95	01/29/95	01/28/95	01/28/95	01/29/95
DATE EXTRACTED -->	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95
DATE ANALYZED --->	02/17/95	02/28/95	02/28/95	02/17/95	02/17/95	02/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
319-84-6 alpha-BHC	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
319-85-7 beta-BHC	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
319-86-8 delta-BHC	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
58-89-9 gamma-BHC (Lindane)	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
76-44-8 Heptachlor	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
309-00-2 Aldrin	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
1024-57-3 Heptachlor epoxide	2.2 U	2.8 J	6.8 J	2.2 U	2.2 U	2.2 U
959-98-8 Endosulfan I	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
60-57-1 Dieldrin	4.3 U	290. J	928. J	8.3 J	4.3 U	15. J
72-55-9 4,4'-DDE	4.3 U	4.1 U	4.2 U	4.2 U	4.3 U	4.3 U
72-20-8 Endrin	4.3 U	4.1 U	8.2 J	4.2 U	4.3 U	4.3 U
33213-65-9 Endosulfan II	4.3 UJ	4.1 UJ	4.2 UJ	4.2 UJ	4.3 UJ	4.3 UJ
72-54-8 4,4'-DDD	4.3 U	4.1 U	4.2 U	4.2 U	4.3 U	4.3 U
1031-07-8 Endosulfan sulfate	4.3 U	4.1 U	4.2 U	4.2 U	4.3 U	4.3 U
50-29-3 4,4'-DDT	4.3 U	11. J	33. J	4.2 U	4.3 U	4.3 U
72-43-5 Methoxychlor	22. U	21. U	22. U	22. U	22. U	22. U
53494-70-5 Endrin ketone	4.3 U	4.1 U	4.2 U	4.2 U	4.3 U	4.3 U
7421-36-3 Endrin aldehyde	4.3 U	4.1 UJ	4.2 UJ	4.2 U	4.3 U	4.3 U
5103-71-9 alpha-Chlordane	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
5103-74-2 gamma-Chlordane	2.2 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U
8001-35-2 Toxaphene	43. U	41. U	42. U	42. U	43. U	43. U
12674-11-2 Aroclor-1016	43. U	41. U	42. U	42. U	43. U	43. U
11104-28-2 Aroclor-1221	43. U	41. U	42. U	42. U	43. U	43. U
11141-16-5 Aroclor-1232	43. U	41. U	42. U	42. U	43. U	43. U
53469-21-9 Aroclor-1242	43. U	41. U	42. U	42. U	43. U	43. U
12672-29-6 Aroclor-1248	43. U	41. U	42. U	42. U	43. U	43. U
11097-69-1 Aroclor-1254	43. U	41. U	42. U	42. U	43. U	43. U
11096-82-5 Aroclor-1260	43. U	90. J	223. J	42. U	43. U	43. U

*** Validation Complete ***

FD1314 SVOA													
	SAMPLE ID ------->	003-S-0005-01		003-S-0005-07		003-S-0005-11		003-S-0005-20		005-S-0001-01		005-S-0001-08	
	ORIGINAL ID ----->	003S000501		003S000507		003S000511		003S000520		005S000101		005S000108	
	LAB SAMPLE ID --->	115985		115986		115987		115988		115989		115990	
	SAMPLE DATE ----->	01/30/95		01/30/95		01/30/95		01/30/95		01/28/95		01/28/95	
	DATE EXTRACTED -->	02/05/95		02/05/95		02/05/95		02/05/95		02/05/95		02/05/95	
	DATE ANALYZED --->	02/09/95		02/09/95		02/09/95		02/09/95		02/09/95		02/09/95	
	MATRIX ---------->	Soil		Water		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/L	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
67-72-1	Hexachloroethane	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
78-59-1	Isophorone	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
88-75-5	2-Nitrophenol	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
105-67-9	2,4-Dimethylphenol	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
111-91-1	bis(2-Chloroethoxy)methane	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
120-83-2	2,4-Dichlorophenol	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
120-82-1	1,2,4-Trichlorobenzene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
91-20-3	Naphthalene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
106-47-8	4-Chloroaniline	440.	UJ	430.	UJ	430.	UJ	430.	UJ	430.	UJ	430.	UJ
87-68-3	Hexachlorobutadiene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
59-50-7	4-Chloro-3-methylphenol	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
91-57-6	2-Methylnaphthalene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
77-47-4	Hexachlorocyclopentadiene	440.	UJ	430.	UJ	430.	UJ	430.	UJ	430.	UJ	430.	UJ
88-06-2	2,4,6-Trichlorophenol	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U	1000.	U	1000.	U	1000.	U	1000.	U	1000.	U
91-58-7	2-Chloronaphthalene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
88-74-4	2-Nitroaniline	1100.	U	1000.	U	1000.	U	1000.	U	1000.	U	1000.	U
131-11-3	Dimethylphthalate	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
208-96-8	Acenaphthylene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
606-20-2	2,6-Dinitrotoluene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
99-09-2	3-Nitroaniline	1100.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ
83-32-9	Acenaphthene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
51-28-5	2,4-Dinitrophenol	1100.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ
100-02-7	4-Nitrophenol	1100.	U	1000.	U	1000.	U	1000.	U	1000.	U	1000.	U
132-64-9	Dibenzofuran	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
121-14-2	2,4-Dinitrotoluene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
84-66-2	Diethylphthalate	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
7005-72-3	4-Chlorophenylphenylether	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
86-73-7	Fluorene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
100-01-6	4-Nitroaniline	1100.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U	1000.	U	1000.	U	1000.	U	1000.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	440.	UJ	430.	UJ	430.	UJ	430.	UJ	430.	UJ	430.	UJ
101-55-3	4-Bromophenylphenylether	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
118-74-1	Hexachlorobenzene	440.	U	430.	U	430.	U	430.	U	430.	U	430.	U
87-86-5	Pentachlorophenol	1100.	U	1000.	U	1000.	U	1000.	U	1000.	U	1000.	U
85-01-8	Phenanthrene	110.	J	430.	U	430.	U	430.	U	430.	U	430.	U

*** Validation Complete ***

FD1314 SVOA						
SAMPLE ID ------->	003-S-0005-01	003-S-0005-07	003-S-0005-11	003-S-0005-20	005-S-0001-01	005-S-0001-08
ORIGINAL ID ----->	003S000501	003S000507	003S000511	003S000520	005S000101	005S000108
LAB SAMPLE ID --->	115985	115986	115987	115988	115989	115990
SAMPLE DATE ----->	01/30/95	01/30/95	01/30/95	01/30/95	01/28/95	01/28/95
DATE EXTRACTED -->	02/05/95	02/05/95	02/05/95	02/05/95	02/05/95	02/05/95
DATE ANALYZED --->	02/09/95	02/09/95	02/09/95	02/09/95	02/09/95	02/09/95
MATRIX ---------->	Soil	Water	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/L A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
120-12-7 Anthracene	440. U	430. U	430. U	430. U	430. U	430. U
86-74-8 Carbazole	440. UJ	430. UJ	430. UJ	430. UJ	430. UJ	430. UJ
84-74-2 Di-n-butylphthalate	440. U	430. U	430. U	430. U	430. U	430. U
206-44-0 Fluoranthene	310. J	430. U	430. U	430. U	430. U	430. U
129-00-0 Pyrene	250. J	430. U	430. U	430. U	430. U	430. U
85-68-7 Butylbenzylphthalate	440. U	430. U	430. U	430. U	430. U	430. U
91-94-1 3,3'-Dichlorobenzidine	440. UJ	430. UJ	430. UJ	430. UJ	430. UJ	430. UJ
56-55-3 Benzo(a)anthracene	140. J	430. U	430. U	430. U	430. U	430. U
218-01-9 Chrysene	150. J	430. U	430. U	430. U	430. U	430. U
117-81-7 bis(2-Ethylhexyl)phthalate (BEHP)	440. UJ	430. UJ	430. UJ	430. UJ	430. UJ	430. UJ
117-84-0 Di-n-octylphthalate	440. U	430. U	430. U	430. U	430. U	430. U
205-99-2 Benzo(b)fluoranthene	130. J	430. U	430. U	430. U	430. U	430. U
207-08-9 Benzo(k)fluoranthene	120. J	430. U	430. U	430. U	430. U	430. U
50-32-8 Benzo(a)pyrene	130. J	430. U	430. U	430. U	430. U	430. U
193-39-5 Indeno(1,2,3-cd)pyrene	81. J	430. U	430. U	430. U	430. U	430. U
53-70-3 Dibenzo(a,h)anthracene	440. U	430. U	430. U	430. U	430. U	430. U
191-24-2 Benzo(g,h,i)perylene	98. J	430. U	430. U	430. U	430. U	430. U
108-95-2 Phenol	440. U	430. U	430. U	430. U	430. U	430. U
111-44-4 bis(2-Chloroethyl)ether	440. U	430. U	430. U	430. U	430. U	430. U
95-57-8 2-Chlorophenol	440. U	430. U	430. U	430. U	430. U	430. U
541-73-1 1,3-Dichlorobenzene	440. U	430. U	430. U	430. U	430. U	430. U
106-46-7 1,4-Dichlorobenzene	440. U	430. U	430. U	430. U	430. U	430. U
95-50-1 1,2-Dichlorobenzene	440. U	430. U	430. U	430. U	430. U	430. U
95-48-7 2-Methylphenol (o-Cresol)	440. U	430. U	430. U	430. U	430. U	430. U
108-60-1 2,2'-oxybis(1-Chloropropane)	440. UJ	430. UJ	430. UJ	430. UJ	430. UJ	430. UJ
106-44-5 4-Methylphenol (p-Cresol)	440. U	430. U	430. U	430. U	430. U	430. U
98-95-3 Nitrobenzene	440. U	430. U	430. U	430. U	430. U	430. U

*** Validation Complete ***

FD1314 SVOA													
	SAMPLE ID ------->	005-S-0001-12		005-S-0002-01		005-S-0002-08		005-S-0002-10		005-S-0003-01		005-S-0003-07	
	ORIGINAL ID ----->	005S000112		005S000201		005S000208		005S000210		005S000301		005S000307	
	LAB SAMPLE ID --->	115991		115992		115993		115994		115995		115996	
	SAMPLE DATE ----->	01/28/95		01/28/95		01/28/95		01/28/95		01/28/95		01/28/95	
	DATE EXTRACTED -->	02/05/95		02/13/95		02/05/95		02/05/95		02/05/95		02/05/95	
	DATE ANALYZED --->	02/09/95		02/15/95		02/09/95		02/10/95		02/10/95		02/10/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
67-72-1	Hexachloroethane	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
78-59-1	Isophorone	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
88-75-5	2-Nitrophenol	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
105-67-9	2,4-Dimethylphenol	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
111-91-1	bis(2-Chloroethoxy)methane	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
120-83-2	2,4-Dichlorophenol	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
120-82-1	1,2,4-Trichlorobenzene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
91-20-3	Naphthalene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
106-47-8	4-Chloroaniline	420.	UJ	420.	UJ	430.	UJ	430.	UJ	430.	UJ	460.	UJ
87-68-3	Hexachlorobutadiene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
59-50-7	4-Chloro-3-methylphenol	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
91-57-6	2-Methylnaphthalene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
77-47-4	Hexachlorocyclopentadiene	420.	UJ	420.	UJ	430.	UJ	430.	UJ	430.	UJ	460.	UJ
88-06-2	2,4,6-Trichlorophenol	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U	1000.	UJ	1000.	U	1000.	U	1000.	U	1100.	U
91-58-7	2-Chloronaphthalene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
88-74-4	2-Nitroaniline	1000.	U	1000.	UJ	1000.	U	1000.	U	1000.	U	1100.	U
131-11-3	Dimethylphthalate	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
208-96-8	Acenaphthylene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
606-20-2	2,6-Dinitrotoluene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
99-09-2	3-Nitroaniline	1000.	UJ	1000.	UJ	1000.	UJ	1000.	U	1000.	U	1100.	U
83-32-9	Acenaphthene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
51-28-5	2,4-Dinitrophenol	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1100.	UJ
100-02-7	4-Nitrophenol	1000.	U	1000.	UJ	1000.	U	1000.	U	1000.	U	1100.	U
132-64-9	Dibenzofuran	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
121-14-2	2,4-Dinitrotoluene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
84-66-2	Diethylphthalate	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
7005-72-3	4-Chlorophenylphenylether	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
86-73-7	Fluorene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
100-01-6	4-Nitroaniline	1000.	UJ	1000.	UJ	1000.	UJ	1000.	U	1000.	U	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U	1000.	UJ	1000.	U	1000.	U	1000.	U	1100.	U
86-30-6	N-Nitrosodiphenylamine	420.	UJ	420.	UJ	430.	UJ	430.	UJ	430.	UJ	460.	UJ
101-55-3	4-Bromophenylphenylether	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
118-74-1	Hexachlorobenzene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
87-86-5	Pentachlorophenol	1000.	U	1000.	UJ	1000.	U	1000.	U	1000.	U	1100.	U
85-01-8	Phenanthrene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 SVOA													
	SAMPLE ID ------->	005-S-0001-12		005-S-0002-01		005-S-0002-08		005-S-0002-10		005-S-0003-01		005-S-0003-07	
	ORIGINAL ID ----->	005S000112		005S000201		005S000208		005S000210		005S000301		005S000307	
	LAB SAMPLE ID --->	115991		115992		115993		115994		115995		115996	
	SAMPLE DATE ----->	01/28/95		01/28/95		01/28/95		01/28/95		01/28/95		01/28/95	
	DATE EXTRACTED -->	02/05/95		02/13/95		02/05/95		02/05/95		02/05/95		02/05/95	
	DATE ANALYZED --->	02/09/95		02/15/95		02/09/95		02/10/95		02/10/95		02/10/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
86-74-8	Carbazole	420.	UJ	420.	UJ	430.	UJ	430.	U	430.	U	460.	U
84-74-2	Di-n-butylphthalate	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
206-44-0	Fluoranthene	420.	U	420.	UJ	430.	U	430.	U	44.	J	460.	U
129-00-0	Pyrene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
85-68-7	Butylbenzylphthalate	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
91-94-1	3,3'-Dichlorobenzidine	420.	UJ	420.	UJ	430.	UJ	430.	U	430.	U	460.	U
56-55-3	Benzo(a)anthracene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
218-01-9	Chrysene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	420.	UJ	140.	J	430.	UJ	430.	UJ	430.	UJ	460.	UJ
117-84-0	Di-n-octylphthalate	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
205-99-2	Benzo(b)fluoranthene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
207-08-9	Benzo(k)fluoranthene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
50-32-8	Benzo(a)pyrene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
193-39-5	Indeno(1,2,3-cd)pyrene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
53-70-3	Dibenzo(a,h)anthracene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
191-24-2	Benzo(g,h,i)perylene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
108-95-2	Phenol	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
111-44-4	bis(2-Chloroethyl)ether	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
95-57-8	2-Chlorophenol	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
541-73-1	1,3-Dichlorobenzene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
106-46-7	1,4-Dichlorobenzene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
95-50-1	1,2-Dichlorobenzene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
95-48-7	2-Methylphenol (o-Cresol)	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420.	UJ	420.	UJ	430.	UJ	430.	U	430.	U	460.	U
106-44-5	4-Methylphenol (p-Cresol)	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U
98-95-3	Nitrobenzene	420.	U	420.	UJ	430.	U	430.	U	430.	U	460.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 SVOA													
	SAMPLE ID ------->	005-S-0003-17		005-S-0004-01		005-C-0004-01		005-S-0004-05		005-S-0004-10		005-S-0006-01	
	ORIGINAL ID ----->	005S000317		005S000401		005C000401		005S000405		005S000410		005S000601	
	LAB SAMPLE ID --->	115997		115998		115999		116000		116001		116002	
	SAMPLE DATE ----->	01/28/95		01/29/95		01/29/95		01/28/95		01/28/95		01/29/95	
	DATE EXTRACTED -->	02/05/95		02/05/95		02/05/95		02/05/95		02/05/95		02/05/95	
	DATE ANALYZED --->	02/10/95		02/10/95		02/13/95		02/10/95		02/10/95		02/13/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
67-72-1	Hexachloroethane	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
78-59-1	Isophorone	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
88-75-5	2-Nitrophenol	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
105-67-9	2,4-Dimethylphenol	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
111-91-1	bis(2-Chloroethoxy)methane	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
120-83-2	2,4-Dichlorophenol	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
120-82-1	1,2,4-Trichlorobenzene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
91-20-3	Naphthalene	440.	U	410.	U	420.	U	130.	J	430.	U	430.	U
106-47-8	4-Chloroaniline	440.	UJ	410.	UJ	420.	UJ	420.	UJ	430.	UJ	430.	UJ
87-68-3	Hexachlorobutadiene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
59-50-7	4-Chloro-3-methylphenol	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
91-57-6	2-Methylnaphthalene	440.	U	410.	U	420.	U	150.	J	430.	U	430.	U
77-47-4	Hexachlorocyclopentadiene	440.	UJ	410.	UJ	420.	UJ	420.	UJ	430.	UJ	430.	UJ
88-06-2	2,4,6-Trichlorophenol	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
91-58-7	2-Chloronaphthalene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
88-74-4	2-Nitroaniline	1100.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
131-11-3	Dimethylphthalate	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
208-96-8	Acenaphthylene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
606-20-2	2,6-Dinitrotoluene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
99-09-2	3-Nitroaniline	1100.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
83-32-9	Acenaphthene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
51-28-5	2,4-Dinitrophenol	1100.	UJ	990.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	1000.	UJ
100-02-7	4-Nitrophenol	1100.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
132-64-9	Dibenzofuran	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
121-14-2	2,4-Dinitrotoluene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
84-66-2	Diethylphthalate	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
7005-72-3	4-Chlorophenylphenylether	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
86-73-7	Fluorene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
100-01-6	4-Nitroaniline	1100.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	440.	UJ	410.	UJ	420.	UJ	420.	UJ	430.	UJ	430.	UJ
101-55-3	4-Bromophenylphenylether	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
118-74-1	Hexachlorobenzene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
87-86-5	Pentachlorophenol	1100.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
85-01-8	Phenanthrene	440.	U	53.	J	110.	J	420.	U	430.	U	430.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 SVOA													
	SAMPLE ID ------->	005-S-0003-17		005-S-0004-01		005-C-0004-01		005-S-0004-05		005-S-0004-10		005-S-0006-01	
	ORIGINAL ID ----->	005S000317		005S000401		005C000401		005S000405		005S000410		005S000601	
	LAB SAMPLE ID --->	115997		115998		115999		116000		116001		116002	
	SAMPLE DATE ----->	01/28/95		01/29/95		01/29/95		01/28/95		01/28/95		01/29/95	
	DATE EXTRACTED -->	02/05/95		02/05/95		02/05/95		02/05/95		02/05/95		02/05/95	
	DATE ANALYZED --->	02/10/95		02/10/95		02/13/95		02/10/95		02/10/95		02/13/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
86-74-8	Carbazole	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
84-74-2	Di-n-butylphthalate	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
206-44-0	Fluoranthene	440.	U	150.	J	320.	J	420.	U	430.	U	430.	U
129-00-0	Pyrene	440.	U	120.	J	270.	J	420.	U	430.	U	430.	U
85-68-7	Butylbenzylphthalate	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
91-94-1	3,3'-Dichlorobenzidine	440.	U	410.	U	420.	UJ	420.	U	430.	U	430.	UJ
56-55-3	Benzo(a)anthracene	440.	U	60.	J	140.	J	420.	U	430.	U	430.	U
218-01-9	Chrysene	440.	U	77.	J	170.	J	420.	U	430.	U	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	51.	J	410.	UJ	45.	J	420.	UJ	430.	UJ	430.	UJ
117-84-0	Di-n-octylphthalate	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
205-99-2	Benzo(b)fluoranthene	440.	U	76.	J	170.	J	420.	U	430.	U	430.	U
207-08-9	Benzo(k)fluoranthene	440.	U	78.	J	170.	J	420.	U	430.	U	430.	U
50-32-8	Benzo(a)pyrene	440.	U	81.	J	170.	J	420.	U	430.	U	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	440.	U	50.	J	120.	J	420.	U	430.	U	430.	U
53-70-3	Dibenzo(a,h)anthracene	440.	U	410.	UJ	44.	J	420.	U	430.	U	430.	U
191-24-2	Benzo(g,h,i)perylene	440.	U	57.	J	130.	J	420.	U	430.	U	430.	U
108-95-2	Phenol	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
111-44-4	bis(2-Chloroethyl)ether	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
95-57-8	2-Chlorophenol	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
541-73-1	1,3-Dichlorobenzene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
106-46-7	1,4-Dichlorobenzene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
95-50-1	1,2-Dichlorobenzene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
95-48-7	2-Methylphenol (o-Cresol)	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
106-44-5	4-Methylphenol (p-Cresol)	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U
98-95-3	Nitrobenzene	440.	U	410.	U	420.	U	420.	U	430.	U	430.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 TPH						
SAMPLE ID ------->	003-S-0005-01	003-S-0005-07	003-S-0005-11	003-S-0005-20	005-S-0001-01	005-S-0001-08
ORIGINAL ID ----->	003S000501	003S000507	003S000511	003S000520	005S000101	005S000108
LAB SAMPLE ID --->	115967	115968	115969	115970	115971	115972
SAMPLE DATE ----->	01/30/95	01/30/95	01/30/95	01/30/95	01/28/95	01/28/95
DATE EXTRACTED -->	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95
DATE ANALYZED --->	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	84. U	87. U	87. U	87. U	84. U	85. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 TPH						
SAMPLE ID ------->	005-S-0001-12	005-S-0002-01	005-S-0002-08	005-S-0002-10	005-S-0003-01	005-S-0003-07
ORIGINAL ID ----->	005S000112	005S000201	005S000208	005S000210	005S000301	005S000307
LAB SAMPLE ID --->	115973	115974	115975	115976	115977	115978
SAMPLE DATE ----->	01/28/95	01/28/95	01/28/95	01/28/95	01/28/95	01/28/95
DATE EXTRACTED -->	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95
DATE ANALYZED --->	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	84. U	82. U	85. U	88. U	85. U	90. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 TPH						
SAMPLE ID ------->	005-S-0003-17	005-S-0004-01	005-C-0004-01	005-S-0004-05	005-S-0004-10	005-S-0006-01
ORIGINAL ID ----->	005S000317	005S000401	005C000401	005S000405	005S000410	005S000601
LAB SAMPLE ID --->	115979	115980	115981	115982	115983	115984
SAMPLE DATE ----->	01/28/95	01/29/95	01/29/95	01/28/95	01/28/95	01/29/95
DATE EXTRACTED -->	02/23/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
DATE ANALYZED --->	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	88. U	83. U	85. U	280.	85. U	85. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 VOA													
	SAMPLE ID ------->	003-S-0005-01		003-S-0005-07		003-S-0005-11		003-S-0005-20		005-S-0001-01		005-S-0001-08	
	ORIGINAL ID ----->	003S000501		003S000507		003S000511		003S000520		005S000101		005S000108	
	LAB SAMPLE ID --->	115985		115986		115987		115988		115989		115990	
	SAMPLE DATE ----->	01/30/95		01/30/95		01/30/95		01/30/95		01/28/95		01/28/95	
	DATE ANALYZED --->	02/02/95		02/02/95		02/02/95		02/02/95		02/02/95		02/02/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
74-83-9	Bromomethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-01-4	Vinyl chloride	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-00-3	Chloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-09-2	Methylene chloride	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
67-64-1	Acetone	13.	UJ	35.	UJ	13.	UJ	13.	UJ	12.	UJ	13.	UJ
75-15-0	Carbon disulfide	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-35-4	1,1-Dichloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-34-3	1,1-Dichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
67-66-3	Chloroform	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
107-06-2	1,2-Dichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
78-93-3	2-Butanone (MEK)	13.	UJ	13.	UJ	13.	UJ	13.	UJ	12.	UJ	13.	UJ
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
56-23-5	Carbon tetrachloride	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-27-4	Bromodichloromethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
78-87-5	1,2-Dichloropropane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
79-01-6	Trichloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
124-48-1	Dibromochloromethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
71-43-2	Benzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-25-2	Bromoform	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
591-78-6	2-Hexanone	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
127-18-4	Tetrachloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
108-88-3	Toluene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
108-90-7	Chlorobenzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
100-41-4	Ethylbenzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
100-42-5	Styrene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
1330-20-7	Xylene (Total)	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1314 VOA						
SAMPLE ID ------->	005-S-0001-12	005-S-0002-01	005-S-0002-08	005-S-0002-10	005-S-0003-01	005-S-0003-07
ORIGINAL ID ----->	005S000112	005S000201	005S000208	005S000210	005S000301	005S000307
LAB SAMPLE ID --->	115991	115992	115993	115994	115995	115996
SAMPLE DATE ----->	01/28/95	01/28/95	01/28/95	01/28/95	01/28/95	01/28/95
DATE ANALYZED --->	02/03/95	02/03/95	02/03/95	02/03/95	02/03/95	02/03/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
74-87-3 Chloromethane	13. U	13. U	13. U	13. U	12. U	14. U
74-83-9 Bromomethane	13. U	13. U	13. U	13. U	12. U	14. U
75-01-4 Vinyl chloride	13. U	13. U	13. U	13. U	12. U	14. U
75-00-3 Chloroethane	13. U	13. U	13. U	13. U	12. U	14. U
75-09-2 Methylene chloride	13. U	13. U	13. U	13. U	12. U	14. U
67-64-1 Acetone	13. UJ	13. UJ	13. UJ	13. U	12. UJ	14. UJ
75-15-0 Carbon disulfide	13. U	13. U	13. U	13. U	12. U	14. U
75-35-4 1,1-Dichloroethene	13. U	13. U	13. U	13. U	12. U	14. U
75-34-3 1,1-Dichloroethane	13. U	13. U	13. U	13. U	12. U	14. U
540-59-0 1,2-Dichloroethene (total)	13. U	13. U	13. U	13. U	12. U	14. U
67-66-3 Chloroform	13. U	13. U	13. U	13. U	12. U	14. U
107-06-2 1,2-Dichloroethane	13. U	13. U	13. U	13. U	12. U	14. U
78-93-3 2-Butanone (MEK)	13. UJ	13. UJ	13. UJ	13. UJ	12. UJ	14. UJ
71-55-6 1,1,1-Trichloroethane	13. U	13. U	13. U	13. U	12. U	14. U
56-23-5 Carbon tetrachloride	13. U	13. U	13. U	13. U	12. U	14. U
75-27-4 Bromodichloromethane	13. U	13. U	13. U	13. U	12. U	14. U
78-87-5 1,2-Dichloropropane	13. U	13. U	13. U	13. U	12. U	14. U
10061-01-5 cis-1,3-Dichloropropene	13. U	13. U	13. U	13. U	12. U	14. U
79-01-6 Trichloroethene	13. U	13. U	13. U	13. U	12. U	14. U
124-48-1 Dibromochloromethane	13. U	13. U	13. U	13. U	12. U	14. U
79-00-5 1,1,2-Trichloroethane	13. U	13. U	13. U	13. U	12. U	14. U
71-43-2 Benzene	13. U	13. U	13. U	13. U	12. U	14. U
10061-02-6 trans-1,3-Dichloropropene	13. U	13. U	13. U	13. U	12. U	14. U
75-25-2 Bromoform	13. U	13. U	13. U	13. U	12. U	14. U
108-10-1 4-Methyl-2-Pentanone (MIBK)	13. U	13. U	13. U	13. U	12. U	14. U
591-78-6 2-Hexanone	13. U	13. U	13. U	13. U	12. U	14. U
127-18-4 Tetrachloroethene	13. U	13. U	13. U	13. U	12. U	14. U
79-34-5 1,1,2,2-Tetrachloroethane	13. U	13. U	13. U	13. U	12. U	14. U
108-88-3 Toluene	13. U	13. U	13. U	13. U	12. U	14. U
108-90-7 Chlorobenzene	13. U	13. U	13. U	13. U	12. U	14. U
100-41-4 Ethylbenzene	13. U	13. U	13. U	13. U	12. U	14. U
100-42-5 Styrene	13. U	13. U	13. U	13. U	12. U	14. U
1330-20-7 Xylene (Total)	13. U	13. U	13. U	13. U	12. U	14. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1314 VOA													
	SAMPLE ID ------->	005-S-0003-17		005-S-0004-01		005-C-0004-01		005-S-0004-05		005-S-0004-10		005-S-0006-01	
	ORIGINAL ID ----->	005S000317		005S000401		005C000401		005S000405		005S000410		005S000601	
	LAB SAMPLE ID --->	115997		115998		115999		116000		116001		116002	
	SAMPLE DATE ----->	01/28/95		01/29/95		01/29/95		01/28/95		01/28/95		01/29/95	
	DATE ANALYZED --->	02/03/95		02/03/95		02/04/95		02/03/95		02/03/95		02/03/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
74-83-9	Bromomethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
75-01-4	Vinyl chloride	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
75-00-3	Chloroethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
75-09-2	Methylene chloride	13.	U	13.	UJ	2.	J	13.	U	13.	U	12.	U
67-64-1	Acetone	13.	UJ	13.	UJ	13.	U	110.	J	10.	J	12.	UJ
75-15-0	Carbon disulfide	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
75-35-4	1,1-Dichloroethene	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
75-34-3	1,1-Dichloroethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
540-59-0	1,2-Dichloroethene (total)	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
67-66-3	Chloroform	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
107-06-2	1,2-Dichloroethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
78-93-3	2-Butanone (MEK)	13.	UJ	13.	UJ	13.	U	20.	J	13.	UJ	12.	UJ
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
56-23-5	Carbon tetrachloride	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
75-27-4	Bromodichloromethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
78-87-5	1,2-Dichloropropane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
79-01-6	Trichloroethene	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
124-48-1	Dibromochloromethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
71-43-2	Benzene	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
75-25-2	Bromoform	13.	U	13.	U	13.	U	13.	U	13.	U	12.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U
591-78-6	2-Hexanone	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U
127-18-4	Tetrachloroethene	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U
108-88-3	Toluene	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U
108-90-7	Chlorobenzene	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U
100-41-4	Ethylbenzene	13.	U	13.	UJ	13.	U	5.	J	13.	U	12.	U
100-42-5	Styrene	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U
1330-20-7	Xylene (Total)	13.	U	13.	UJ	13.	U	13.	U	13.	U	12.	U

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00265, 95.00266, 95.00303, & 95.00304 (Level III Validation)
Case Nº:	FD1315

Sample Identification	Matrix
005S000607	Soil
005S000612	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
005C000712	Soil
005E012895	Water
005F012995	Water
005P012995	Water
060S000101	Soil
060S000107	Soil
060S000114	Soil
060S000127	Soil
060C000127	Soil
060S000401	Soil
060S000409	Soil
060S000409D	Soil
060S000409S	Soil
060S000415	Soil
060F013195	Water

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 16 soil samples and 4 water samples listed on the cover page. The analyses were per Method 6010, 7060, 7421, 7740, 7841, 7470 in SW-846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met except for the following:

Sample	Matrix	Parameter	Out of Limit Holding Time/ QC Limit	Flag
005C000712	Soil	Cyanide	15/14 days	UJ

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form X), inter-element corrections (Form XI A & B) and linear range analysis (Form XII) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Init. Calib. Blank (µg/L)	Cont. Calib. Blank (µg/L)	Preparation Blank (µg/L)	Blank*	Act. Lvl. (5x high blk)		Associated Samples
						(µg/L)	(mg/kg)	
Arsenic	2		-2.5			12.5	2.5	All
Barium	2				32.1	161	32.1	All
Lead	2				2.9	14.5	2.9	All
Selenium	2		2.2	2.2		11	2.2	All
Tin	15	74.4	90.8	43	46.3	454	90.8	All
Zinc	5				7.2	36	7.2	All

* Field Blank, Trip Blank, Rinsate Blank, or other blank.

The soil sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
005S607	Selenium Tin	0.68B 12.0B	0.68U 12.0U
005S612	Selenium Tin	0.92B 6.2B	0.92U 6.2U
005S701	Selenium Tin	0.81B 10.6B	0.81U 10.6U

005S710	Selenium Tin	0.65B 19.2B	0.65U 19.2U
005S712	Selenium Tin	0.75B 11.4B	0.75U 11.4U
005C712	Selenium Tin	0.98B 14.9B	0.98U 14.9U
060S101	Selenium Tin	0.85B 14.0B	0.85U 14.0U
060S107	Tin	8.7B	8.7U
060S114	Selenium Tin	0.65B 7.0B	0.65U 7.0U
060S127	Arsenic Selenium Tin	1.3B 0.59B 17.0B	1.3U 0.59U 17.0U
060C127	Arsenic Selenium Tin	1.8B 0.57B 24.6B	1.8U 0.57U 24.6U
060S401	Selenium Tin	0.62B 11.8B	0.62U 11.8U
060S409	Selenium Tin	0.52B 14.0B	0.52U 14.0U
060S415	Selenium Tin	0.62B 8.5B	0.62U 8.5U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

Analytes that are not present in the ICS solution but has an absolute value > IDL are:

Dates/Time	Sample	Element	Assoc. Sample	Element Effects	Flag
02/22/95 12:53	ICSAI	Ba,Cd,Cr,Cu, Ag,V,Zn,Sn	005S710 060S107	Cd, Cu,Ag	J J
02/22/95 16:42	ICSAI	Ba,Cd,Cr,Cu, Ag,V,Zn,Sn	005S710 060S107	Cd, Cu,Ag	J J

Samples 005S710 and 060S107 have comparable or higher levels of interferants than the ICS solutions. Cd concentrations in 005S710, and Cu and Ag concentrations in 060S107 approximate those levels found in the ICSs. Therefore, these elements in these two samples were qualified as estimated.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	%R	Associated Samples	Flag
Antimony	26.5	All	UJ

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. GRAPHITE FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within ±20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
005S701	Lead	77.8	85-115%	None (MSA passed)
005S710		131.8	85-115%	None (MSA passed)
		81.8	85-115%	UJ
		118.2	85-115%	J
005S612	Arsenic	121.5	85-115%	None (MSA passed)
005S701		117.0	85-115%	None (MSA passed)
005S710		115.5	85-115%	None (MSA passed)
005S712		119.2	85-115%	J
060S114		126.8	85-115%	None (MSA passed)
060C127		121.0	85-115%	J
060S401		119.0	85-115%	None (MSA passed)
060S409		124.2	85-115%	None (MSA passed)
060S415		117.5	85-115%	None (MSA passed)
05012995		115.5	85-115%	None (MSA passed)
		115.5	85-115%	UJ
060S101	Thallium	68.8	85-115%	UJ
060S107		54.5	85-115%	UJ
060S114		80.0	85-115%	UJ
005S710	Selenium	82.5	85-115%	J
005S712		80.0	85-115%	J
060S101		75.0	85-115%	J
060S107		75.5	85-115%	None (MSA passed)
060S114		82.0	85-115%	J
060S127		80.5	85-115%	J
060S415		83.5	85-115%	J
		84.0	85-115%	J

MSA was performed and the results were within QC limit.

MSA was required for the following but were not performed:

Sample	Element	Flag
005S712 060C127	Arsenic	J J UJ
060S101 060S107 060S114	Thallium	UJ UJ UJ
005S710 005S712 060S101 060S114 060S127 060S415	Selenium	J J J J J J J

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

No raw data were reviewed.

XI. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. All detected analytes were within RPD QC limit except for the following:

Compound	Concentration (mg/kg)		[s-d] (QC Limit)	Flag
	005S000712	005C000712		
Arsenic	2.6	26.0	23.4 (8)	J

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1315

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	005C000712	Cyanide	UJ	Holding time out of limit
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000101 060S000114 060S000127 060C000127 060S000401 060S000409 060S000415	Selenium	U	Blank contamination
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000101 060S000107 060S000114 060S000127 060C000127 060S000401 060S000409 060S000415	Tin	U	Blank contamination
FD1315	005S000710	Cadmium	J	ICP interference
FD1315	060S000107	Copper Silver	J	ICP interference
FD1315	005S000712 060C000127	Arsenic	J J UJ	Furnace atomic absorption
FD1315	060S000101 060S000107 060S000114	Thallium	UJ	Furnace atomic absorption
FD1315	005S000710 005S000712 060S000101 060S000114 060S000127 060S000415	Selenium	J	Furnace atomic absorption
FD1315	005S000712 005C000712	Arsenic	J	Field duplicate

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00264, 95.00266, 95.00303, & 95.00304 (Level III Validation)
Case Nº:	FD1315

Sample Identification	Matrix
005E012895	Water
005F012995	Water
005P012995	Water
005T013095	Water
060F013195	Water
060T013195	Water
005C000712	Soil
005S000607	Soil
005S000612	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
005C000127	Soil
060S000101	Soil
060S000114	Soil
060S000127	Soil
060S000401	Soil
060S000409	Soil
060S000415	Soil
060S000107	Soil
060S000409MS	Soil
060S000409MSD	Soil

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INTRODUCTION

This data review report covers 16 soil samples and 6 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
01/30/95 12:21 - 02/01/95 14:43	HP5970L	Acetone	32.3 (≤30%)	005C000712 005S000607 005S000612 005S000701 005S000710 005S000712 060C000127 060S000101 060S000114 060S000127 060S000401 060S000409 060S000415	J(detects)/UJ(non-detects)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/02/95 10:47	HP5970L	Acetone 2-Butanone 2-Hexanone	39.4 (±25%) 27.0 (±25%) 26.0 (±25%)	005C000712 005S000607 005S000612 005S000701 005S000710 005S000712	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)
02/06/95 14:10	HP5970L	Acetone 2-Butanone 2-Hexanone	47.8 (±25%) 41.1 (±25%) 27.2 (±25%)	060C000127 060S000101 060S000114 060S000127 060S000401 060S000409 060S000415	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
02/05/95	VBLK020695L	Acetone	1	10	060C000127 060S000101 060S000114 060S000127	19B 17B 24B 18B	19 17 24 18
02/02/95	VBLK020295L	Acetone	10	100	005C000712 005S000607 005S000612 005S000701	3BJ 6BJ 13BJY 1J	13U 13U 13U 14U

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level 10 x (µg/L)	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
02/03/95	005E012895	Acetone	8J	80	005S000607 005S000612 005S000712	6BJ 13BJY 3BJ	13U 13U 13U
02/03/95	005T013095	Methylene chloride	1J	10	005S000710	1J	14U
02/09/95	060F013195	Acetone	6J	60	060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	17B 34 24B 19B 10BJ 18B	17U 34U 24U 19U 12U 18U

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (µg/kg)		RPD (QC Limit)	Flag
	060S000127	060C000127		
Methylene chloride	12U	1J	NA	J(detect)/UJ(non-detect)

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1315

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	005C000712 005S000607 005S000612 005S000701 005S000710 005S000712 060C000127 060S000101 060S000114 060S000127 060S000401 060S000409 060S000415	Acetone	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1315	005C000712 005S000607 005S000612 005S000701 005S000710 005S000712	Acetone 2-Butanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060C000127 060S000101 060S000114 060S000127 060S000401 060S000409 060S000415	Acetone 2-Butanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060C000127 060S000101 060S000114 060S000127	Acetone	19 17 24 18	Method blank
FD1315	005C000712 005S000607 005S000612 005S000701	Acetone	13U	Method blank
FD1315	005S000607 005S000612 005C000712	Acetone	13U	Field blank
FD1315	005S000710	Methylene chloride	14U	Field blank
FD1315	060S000101 060S000114 060S000127 060S000127 060S000401 060S000415	Acetone	17U 34U 24U 19U 12U 18U	Field blank
FD1315	060S000127 060C000127	Methylene chloride	J(detect)/UJ(non-detect)	Field duplicate RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00265, 95.00266, 95.00303, & 95.00304 (Level III Validation)
Case Nº:	FD1315

Sample Identification	Matrix
005C000712	Soil
005E012895	Water
005F012995	Water
005P012995	Water
005S000607	Soil
005S000612	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
060C000127	Soil
060F013195	Water
060S000101	Soil
060S000107	Soil
060S000114	Soil
060S000127	Soil
060S000401	Soil
060S000409	Soil
060S000415	Soil
060S000409MS	Soil
060S000409MSD	Soil

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INTRODUCTION

This data review report covers 16 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Extraction Holding Time / QC Limit	Flag
005C000712	Soil	15 (14)	J(detect)/UJ(non-detect)
005S000607	Soil	15 (14)	J(detect)/UJ(non-detect)
005S000612	Soil	15 (14)	J(detect)/UJ(non-detect)
005S000701	Soil	15 (14)	J(detect)/UJ(non-detect)
005S000710	Soil	15 (14)	J(detect)/UJ(non-detect)
005S000712	Soil	15 (14)	J(detect)/UJ(non-detect)

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/08/95 10:28	HP5970J	4-Chloroaniline	38.8 (≤ ±30%)	060S000101	J(detect)/UJ(non-detect)
		Hexachlorocyclopentadiene	30.2 (≤ ±30%)	060S000401	J(detect)/UJ(non-detect)
		2,4-Dinitrophenol	40.3 (≤ ±30%)	060S000409	J(detect)/UJ(non-detect)
		N-Nitrosodiphenylamine	32.5 (≤ ±30%)	060S000415	J(detect)/UJ(non-detect)
		Bis(2-ethylhexyl)phthalate	31.5 (≤ ±30%)		J(detect)/UJ(non-detect)
01/16/95 09:27	HP5970F	2,4-Dinitrophenol	44.7 (≤ ±30%)	005C000712 005S000607 005S000612 005S000701 005S000710 005S000712 060C000127 060S000107 060S000114 060S000127	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/15/95 11:26	HP5970F	2,2'-Oxybis(1-chloropropane)	27.6 (≤25%)	005S000607	J(detect)/UJ(non-detect)
		1,2,4-Trichlorobenzene	25.9 (≤25%)	005S000612	J(detect)/UJ(non-detect)
		Hexachlorobutadiene	34 (≤25%)	005S000701	J(detect)/UJ(non-detect)
		Hexachlorocyclopentadiene	42.1 (≤25%)	005S000710	J(detect)/UJ(non-detect)
		4-Nitroaniline	-29.8 (≤25%)	005S000712	J(detect)/UJ(non-detect)
		4-Bromophenylphenyl ether	29.4 (≤25%)	005C000712	J(detect)/UJ(non-detect)
		Hexachlorobenzene	34.2 (≤25%)	060S000107	J(detect)/UJ(non-detect)
		Pentachlorophenol	38.8 (≤25%)	060S000114	J(detect)/UJ(non-detect)
		bis(2-ethylhexyl)phthalate	-27.8 (≤25%)	060S000127	J(detect)/UJ(non-detect)
		2,4,6-Tribromophenol	40.7 (≤25%)	060C000127	J(detect)/UJ(non-detect)
02/16/95 09:50	HP5970J	3,3'-Dichlorobenzidine	27.6 (≤25%)	060S000101 060S000401 060S000409 060S000415	J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies.

Contaminants found in the method blank(s) are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Associated Samples	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
01/15/95	SBLK021395F	Di-N-butyl phthalate	470	4700	005C000712	430U	None
					005S000607	420U	None
					005S000612	430U	None
					005S000701	440U	None
					005S000710	460U	None
					005S000712	430U	None
					060C000127	420U	None
					060S000107	2200U	None
					060S000114	420U	None
					060S000127	420U	None
02/16/95	SBLK021395J	Di-N-butyl phthalate	470	4700	060S000101	2000U	None
		Bis(2-Ethylhexyl)phthalate	38J	380		2000U	None
02/16/95	SBLK021395J	Di-N-butyl phthalate			060S000401	380U	None
		Bis(2-Ethylhexyl)phthalate				140BJ	380U
02/16/95	SBLK021395J	Di-N-butyl phthalate			060S000409	430U	None
		Bis(2-Ethylhexyl)phthalate				200BJ	430U
02/16/95	SBLK021395J	Di-N-butyl phthalate			060S000415	420U	None
		Bis(2-Ethylhexyl)phthalate				230BJ	420U

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s).

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846.

All surrogate spike recoveries met QC requirements except for the following:

Sample	Surrogate Spike Compound	%R	QC Limit	Compounds Affected	Flag
060S000101	2-Fluorobiphenyl (B/N)	118	30-115%	None	None (only 1 surrogate out)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1315

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	005C000712 005S000607 005S000612 005S000701 005S000710 005S000712	All samples	J(detect)/UJ(non-detect)	Holding time violation
FD1315	060S000101 060S000401 060S000409 060S000415	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N-Nitrosodiphenylamine bis(2-ethylhexyl)phthalate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1315	005C000712 005S000607 005S000612 005S000701 005S000710 005S000712 060C000127 060S000107 060S000114 060S000127	2,4-Dinitrophenol	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000107 060S000114 060S000127 060C000127	2,2'-Oxybis(1-chloropropane) 1,2,4-Trichlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene 4-Nitroaniline 4-Bromophenylphenyl ether Hexachlorobenzene Pentachlorophenol bis(2-ethylhexyl)phthalate 2,4,6-Tribromophenol	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060S000101 060S000401 060S000409 060S000415	3,3'-Dichlorobenzidine	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060S000401 060S000409 060S000415	bis(2-ethylhexyl)phthalate	380U 430U 420U	Blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00265, 95.00303, 95.00266, & 95.00304 (Level III Validation)
Case Nº:	FD1315

Sample Identification	Matrix
005C000712	Soil
005E012895	Water
005F012995	Water
005P012995	Water
005S000600Z	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
060C000127	Soil
060F013195	Water
060S000101DL	Soil
060S000107DL	Soil
060S000114	Soil
060S000127	Soil
060S000401	Soil
060S000409	Soil
060S000415	Soil
060S000409MS	Soil
060S000409MSD	Soil

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INTRODUCTION

This data review report covers 17 soil samples and 4 water samples listed on the cover sheet. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SOW.

The %RSD for calibration factors of single and multiple component analytes were within 20% QC limits.

V. CALIBRATION VERIFICATION

Calibration verifications of INDAM and INDBM were performed at required frequencies and sequence for both columns. The RT windows and RPD were within QC limit (Form 7E) except for the following:

Date/ Time	Standard/ Column	Compound	Associated Compounds	%D	QC Limit %D	Flag
02/28/95	INDAM08/RTX5	Endrin	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000114 060S000127 060C000127 060S000401	-15.41	±15%	None (confirmation only)
02/28/95	INDAM09/RTX5	Endosulfan I Endrin 4,4'-DDD	060S000409 060S000415 060S000107DL 060S000101DL 005S000710 005S000712 005C000712 060S000114 060S000127 060C000127 060S000401	-15.66 -19.04 -19.42	±15% ±15% ±15% ±15% ±15% ±15% ±15% ±15% ±15% ±15% ±15%	None (confirmation only) None (confirmation only) None (confirmation only)

Date/ Time	Standard/ Column	Compound	Associated Compounds	%D	QC Limit %D	Flag
02/28/95	INDBM09/RTX5	beta-BHC	060S000409	15.87	±15%	None (confirmation only)
		Heptachlor epoxide	060S000415	18.83	±15%	None (confirmation only)
		g-Chlordane	060S000107DL	15.71	±15%	None (confirmation only)
		Endosulfan II	060S000101DL	18.53	±15%	None (confirmation only)
		Endrin aldehyde	005S000710	23.80	±15%	None (confirmation only)
		Endosulfan sulfate	005S000712	18.77	±15%	None (confirmation only)
		Endrin ketone	060S000114	16.96	±15%	None (confirmation only)
			060S000127			
			060C000127			
			060S000401			
03/01/95	INDAM10/RTX5	gamma-BHC	060S000409	-19.03	±15%	None (confirmation only)
		Endosulfan I	060S000415	-19.26	±15%	None (confirmation only)
		Dieldrin	060S000107DL	-16.43	±15%	None (confirmation only)
		Endrin	060S000101DL	-23.29	±15%	None (confirmation only)
		4,4'-DDD		-20.94	±15%	None (confirmation only)

VI. BLANKS

Instrument blanks were performed at the required frequency. RT windows were all within QC limit.

Instrument blanks were free of contamination.

The method blanks were extracted and performed according to the SOW. The blanks were free of contamination.

VII. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SOW. Surrogate spike recoveries were within QC limits.

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Flag
060S000409	Endosulfan sulfate			36 (<30%)	UJ

IX. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed for this package.

Results were not evaluated since no summary form was provided.

X FLORISIL CARTILAGE CHECK

The %R for florisil cartilage check were within QC limits.

X. COMPOUND IDENTIFICATION

Form I and the identification summary (Form X) were reviewed and all compounds were properly reported.

%D between 2 columns were < 25% except for the following:

Sample	Compound	%D	Limit	Flag
005S000701	Aroclor-1260 4,4' DDT	57.4 150	< 25% < 25%	J J
005S000607	Heptachlor epoxide	50	< 25%	J

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

Dieldrin in the undiluted 005S000607 was out of range. Result of Dieldrin in the diluted sample was used.

Sample	Compound	Reported Result	Modified Result
005S000607	Dieldrin	94E	103D

XII. SYSTEM PERFORMANCE

The quality control parameters: PEM, Standards, Blanks, MS/MSD, Surrogate Spike Recoveries for this package were all properly performed and within QC limits.

XIII. FIELD DUPLICATES

2 set of field duplicates were analyzed in this SDG. No target analysis were detected in any of the samples.

XIV OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - Case Nº FD1315

Case Nº	Sample ID	Parameter	Flag	Reason
FD1315	060S000409	Endosulfan sulfate	UJ	RPD of NS/MSD
FD1315	005S000701	4-4'DDT Aroclor-1260	J	%D between 2 columns
FD1315	005S000607	Heptachlor epoxide	J	%D between 2 columns
FD1315	005S000607	Dieldrin	103D	Result of diluted sample

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00265, 95.00266, 95.00303, & 95.00304 (Level III Validation)
SDG Nº:	FD1315

Sample Identification	Matrix
005E012895	Water
005F012995	Water
005P012995	Water
060F013195	Water
005S000607	Soil
005S000612	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
005C000712	Soil
060S000101	Soil
060S000107	Soil
060S000114	Soil
060S000127	Soil
060C000127	Soil
060S000401	Soil
060S000409	Soil
060S000415	Soil
060S000107D	Soil
060S000409MS	Soil
060S000409MSD	Soil

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INTRODUCTION

This data review report covers 17 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of single component analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/14/95 23:49	RF1X / RTX-5 RF2X RF4X RF10X RF20X	MCPP MCPA	24.5 21.5	≤20.0% ≤20.0%	060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/22/95 18:23	RF1X / RTX-5 RF2X RF4X RF10X RF20X	MCPP MCPA 2,4,5-T 2,4-DB	25.3 28.6 21.0 22.4	≤20.0% ≤20.0% ≤20.0% ≤20.0%	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000107	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/24/95 19:27	RF1X / RTX-5 RF2X RF4X RF10X RF20X	MCPP MCPA 2,4,5-T 2,4-DB	31.7 28.7 35.4 43.7	≤20.0% ≤20.0% ≤20.0% ≤20.0%	060S000409	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/21/95 00:39	8150L3 / RTX-5	2,4-D Silvex	-16.2 (≤ ±15%) -17.6 (≤ ±15%)	060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/21/95 13:57	8150L3 / RTX-5	Dichloroprop Dinoseb	-15.7 (≤ ±15%) -18.6 (≤ ±15%)	060S000415	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/24/95 02:45	8150L3 / RTX-5	Dichloroprop 2,4-D Dinoseb	-19.2 (≤ ±15%) -22.0 (≤ ±15%) -15.1 (≤ ±15%)	005S000607 005S000612	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/24/95 09:32	8150L3 / RTX-5	Dicamba Dichloroprop 2,4-D	-15.7 (≤ ±15%) -21.4 (≤ ±15%) -15.9 (≤ ±15%)	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/24/95 17:28	8150L3 / RTX-5	2,4,5-T 2,4-DB	20.0 (≤ ±15%) 20.9 (≤ ±15%)	005S000701 005S000710 005S000712 005C000712	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/25/95 21:47	8150L3 / RTX-5	Dicamba MCPA Dichloroprop 2,4-D Silvex 2,4,5-T Dinoseb	-34.2 (≤ ±15%) -20.7 (≤ ±15%) -26.0 (≤ ±15%) -24.3 (≤ ±15%) -24.8 (≤ ±15%) -21.4 (≤ ±15%) -27.1 (≤ ±15%)	060S000409	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/26/95 03:48	8150L3 / RTX-5	Dicamba Dichloroprop 2,4-D 2,4,5-T Dinoseb	-17.7 (≤ ±15%) -17.3 (≤ ±15%) -16.8 (≤ ±15%) -19.0 (≤ ±15%) -18.0 (≤ ±15%)	060S000409	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination except for the following:

Date	Blank	Compound	Conc. (µg/L)	Action Level 5x conc. (µg/L)	Associated Samples	Reported Conc. (µg/L)	Modified Conc. (µg/L)
02/26/95 09:40	HIBLK12	Dinoseb	0.24	≤0.12	None	NA	NA

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	Surrogate Spike Compound	%R (Adv. Limit %)	Compounds Affected	Flag
060S000101	RTX-5		221 (40-115%)	All	J(detect)/None(non-detect)
060S000107	RTX-5		0 (40-115%)	All	J(detect)/R(non-detect)
060S000409	RTX-5		131 (40-115%)	All	J(detect)/None(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
060S000409	2,4,5-TP	200 (10-150%)	240 (10-150%)		J(detect)/None(non-detect)
	Dinoseb	0 (10-150%)	0 (10-150%)		J(detect)/R(non-detect)
	Dalapon	0 (10-150%)	0 (10-150%)		J(detect)/R(non-detect)
	Dicamba			34 (≤20%)	J(detect)/UJ(non-detect)
	2,4-DB	420 (10-150%)	300 (10-150%)	33 (≤20%)	J(detect)/None(non-detect)
	MCPP	0 (10-150%)	0 (10-150%)		J(detect)/R(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
HLCS0208S	RTX-5	2,4-DB Dinoseb	224.35 (10-150%) 0.00 (10-150%)	0.00 (19.5-19.6)	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712	J(detect)/None(non-detect) J(detect)/R(non-detect)
HLCS0208S	RTX-35	Dinoseb	0.00 (10-150%)	0.00 (23.99-24.09)	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712	None (secondary)
LCS0209	RTX-5	Dinoseb	3.62 (10-150%)		060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	J(detect)/UJ(non-detect)

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
LCS0209	RTX-35	Dinoseb	3.91 (10-150%)		060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	None (secondary)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were properly identified except for the following compounds which were found to be misidentified and the appropriate actions were recommended:

Sample	Compound	Column	%D	QC Limit	Flag
060S000107	MCPP		1817.6	≤25%	J(detect)
060S000114	MCPP		98.9	≤25%	J(detect)
60S000409	Dinoseb		87.7	≤25%	J(detect)

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1315

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	MCPP MCPA	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000107D 060S000409	MCPP MCPA 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1315	060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	2,4-D Silvex	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060S000415	Dichloroprop Dinoseb	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	005S000607 005S000612	Dinoseb Dichloroprop 2,4-D	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712	Dicamba Dichloroprop 2,4-D	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	005S000701 005S000710 005S000712 005C000712	2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060S000409	Dicamba MCPA Dichloroprop 2,4-D Silvex 2,4,5-T Dinoseb	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060S000409	Dicamba Dichloroprop 2,4-D 2,4,5-T Dinoseb	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1315	060S000101 060S000107 060S000409	All	J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/R(non-detect)	Surrogate spike %R
FD1315	060S000409	2,4,5-TP Dinoseb Dalapon Dicamba 2,4-DB MCPP	J(detect)/None(non-detect) J(detect)/R(non-detect) J(detect)/R(non-detect) J(detect)/UJ(non-detect) J(detect)/None(non-detect) J(detect)/R(non-detect)	Matrix spike/matrix spike duplicate %R

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712	2,4-DB Dinoseb	J(detect)/None(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R
FD1315	060S000101 060S000114 060S000127 060C000127 060S000401 060S000415	Dinoseb	J(detect)/UJ(non-detect)	Laboratory control sample %R
FD1315	060S000107 060S000114	MCPP	J(detect)	Compound identification %D
FD1315	060S000409	Dinoseb	J(detect)	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00265, 95.00266, 95.00303, & 95.00304 (Level III Validation)
SDG Nº:	FD1315

Sample Identification	Matrix
005C000712	Soil
005E012895	Water
005F012995	Water
005P012995	Water
005S000607	Soil
005S000612	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
060C000127	Soil
060F013195	Water
060S000107	Soil
060S000114	Soil
060S000127	Soil
060S000401	Soil
060S000409	Soil
060S000415	Soil
060S000101	Soil
060S000409MS	Soil
060S000409MSD	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 16 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating organophosphorus pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSD for calibration factors of analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/22/95 20:40	RF250/RTX-35	Mevinphos alpha	22.7	≤20%	005S000607	J(detects)/UJ(non-detects)
	RF500/RTX-35	Merphos	26.8	≤20%	005S000612	None (confirmation only)
	RF1000/RTX-35	Fensulfothion	31.4	≤20%	005S000701	J(detects)/UJ(non-detects)
	RF2000/RTX-35	Guthion	70.3	≤20%	005S000710	None (confirmation only)
	RF4000/RTX-35	Coumaphos	36.1	≤20%	005S000712	J(detects)/UJ(non-detects)
					005C000712	
					060S000101	
					060S000107	
					060S000114	
					060S000127	
					060C000127	
					060S000401	
					060S000409	
					060S000415	
02/22/95 20:40	RF250/RTX-5	Mevinphos alpha	25.5	≤20%	005S000607	None (confirmation only)
	RF500/RTX-5	Naled	78.9	≤20%	005S000612	J(detects)/UJ(non-detects)
	RF1000/RTX-5	Fensulfothion	40.1	≤20%	005S000701	None (confirmation only)
	RF2000/RTX-5	Stirophos	45.6	≤20%	005S000710	None (confirmation only)
	RF4000/RTX-5	Guthion	57.7	≤20%	005S000712	J(detects)/UJ(non-detects)
		Coumaphos	26.0	≤20%	005C000712	None (confirmation only)
					060S000101	
					060S000107	
					060S000114	
					060S000127	
					060C000127	
					060S000401	
					060S000409	
					060S000415	

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/23/95 20:41	RF1000/RTX-35	Demeton, s	-18.8 (±15%)	005S000607	J(detects)/UJ(non-detects)
		Diazinon	-15.3 (±15%)	005S000612	J(detects)/UJ(non-detects)
		Methyl parathion	-18.8 (±15%)	005S000701	J(detects)/UJ(non-detects)
		Ronnel	-15.4 (±15%)	005S000710	J(detects)/UJ(non-detects)
		Fensulfothion	-18.3 (±15%)	005S000712	J(detects)/UJ(non-detects)
		Stirophos	-20.4 (±15%)	005C000712	J(detects)/UJ(non-detects)
		Coumaphos	-26.5 (±15%)	060S000101	J(detects)/UJ(non-detects)
02/23/95 20:41	RF1000/RTX-5	Dichlorvos	26.0 (±15%)	005S000607	None (confirmation only)
		Mevinphos, alpha	19.8 (±15%)	005S000612	None (confirmation only)
		Demeton, o	19.9 (±15%)	005S000701	None (confirmation only)
		Ethoprop	16.3 (±15%)	005S000710	None (confirmation only)
		Naled	17.2 (±15%)	005S000712	J(detects)/UJ(non-detects)
		Phorate	18.4 (±15%)	005C000712	J(detects)/UJ(non-detects)
		Diazinon	20.6 (±15%)	060S000101	None (confirmation only)
		Disulfoton	17.2 (±15%)		None (confirmation only)
		Methyl parathion	17.9 (±15%)		None (confirmation only)
		Ronnel	20.3 (±15%)		None (confirmation only)
		Chloropyrifos	19.2 (±15%)		None (confirmation only)
		Trichloronate	16.1 (±15%)		None (confirmation only)
		Merphos	32.2 (±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	31.8 (±15%)		None (confirmation only)
		Guthion	26.4 (±15%)		J(detects)/UJ(non-detects)
02/24/95 04:37	RF1000/RTX-35	Dichlorvos	-20.5 (±15%)	005S000710	J(detects)/UJ(non-detects)
		Mevinphos, alpha	-34.5 (±15%)	005S000712	J(detects)/UJ(non-detects)
		Demeton, o	-51.5 (±15%)	005C000712	J(detects)/UJ(non-detects)
		Phorate	-19.0 (±15%)	060S000101	None (confirmation only)
		Demeton, s	-25.9 (±15%)		J(detects)/UJ(non-detects)
		Diazinon	-15.3 (±15%)		J(detects)/UJ(non-detects)
		Methyl parathion	-30.5 (±15%)		J(detects)/UJ(non-detects)
		Ronnel	-16.8 (±15%)		J(detects)/UJ(non-detects)
		Fenthion	-17.1 (±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	-60.7 (±15%)		J(detects)/UJ(non-detects)
		Stirophos	-33.8 (±15%)		J(detects)/UJ(non-detects)
		Sulprofos	-16.7 (±15%)		J(detects)/UJ(non-detects)
		Guthion	-240.3 (±15%)		None (confirmation only)
		Coumaphos	-90.8 (±15%)		J(detects)/UJ(non-detects)
02/24/95 04:37	RF1000/RTX-5	Dichlorvos	38.7 (±15%)	005S000710	None (confirmation only)
		Mevinphos, alpha	27.1 (±15%)	005S000712	None (confirmation only)
		Demeton, o	27.2 (±15%)	005C000712	None (confirmation only)
		Ethoprop	28.4 (±15%)	060S000101	None (confirmation only)
		Phorate	29.3 (±15%)		J(detects)/UJ(non-detects)
		Demeton, s	24.8 (±15%)		None (confirmation only)
		Diazinon	32.7 (±15%)		None (confirmation only)
		Disulfoton	29.3 (±15%)		None (confirmation only)
		Methyl parathion	22.2 (±15%)		None (confirmation only)
		Ronnel	29.4 (±15%)		None (confirmation only)
		Fenthion	17.9 (±15%)		None (confirmation only)
		Chloropyrifos	34.7 (±15%)		None (confirmation only)
		Trichloronate	25.6 (±15%)		None (confirmation only)
		Merphos	27.3 (±15%)		J(detects)/UJ(non-detects)
		Tokuthion	21.3 (±15%)		None (confirmation only)
		Fensulfothion	-26.3 (±15%)		None (confirmation only)
		Sulprofos	20.3 (±15%)		None (confirmation only)
		Guthion	-86.9 (±15%)		J(detects)/UJ(non-detects)
		Coumaphos	-25.6 (±15%)		None (confirmation only)
02/24/95 11:26	RF1000/RTX-35	Demeton, o	-28.4 (±15%)	060S000101	J(detects)/UJ(non-detects)
		Merphos	-23.9 (±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	-26.7 (±15%)		J(detects)/UJ(non-detects)
		Guthion	-132.0 (±15%)		J(detects)/UJ(non-detects)
		Coumaphos	-54.0 (±15%)		J(detects)/UJ(non-detects)

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/24/95 11:26	RF1000/RTX-5	Mevinphos, alpha	-33.3 (±15%)	060S000101	None (confirmation only)
		Naled	-56.9 (±15%)		J(detects)/UJ(non-detects)
		Demeton, s	-19.4 (±15%)		None (confirmation only)
		Methyl parathion	-17.8 (±15%)		None (confirmation only)
		Fenthion	-22.8 (±15%)		None (confirmation only)
		Merphos	-32.8 (±15%)		None (confirmation only)
		Fensulfothion	-75.5 (±15%)		None (confirmation only)
		Stirophos	-76.1 (±15%)		None (confirmation only)
		Guthion	-142.1 (±15%)		None (confirmation only)
		Coumaphos	-69.8 (±15%)		None (confirmation only)
02/25/95 04:39	RF1000/RTX-35	Dichlorvos	-20.0 (±15%)	060S000101	J(detects)/UJ(non-detects)
		Mevinphos, alpha	-33.8 (±15%)	060S000107	J(detects)/UJ(non-detects)
		Demeton, o	-65.5 (±15%)	060S000114	J(detects)/UJ(non-detects)
		Ethoprop	-20.5 (±15%)	060S000127	J(detects)/UJ(non-detects)
		Phorate	-25.6 (±15%)	060C000127	J(detects)/UJ(non-detects)
		Demeton, s	-33.1 (±15%)	060S000401	J(detects)/UJ(non-detects)
		Diazinon	-16.6 (±15%)	060S000409	J(detects)/UJ(non-detects)
		Disulfoton	-15.7 (±15%)	060S000415	J(detects)/UJ(non-detects)
		Methyl parathion	-36.4 (±15%)		J(detects)/UJ(non-detects)
		Ronnel	-20.9 (±15%)		J(detects)/UJ(non-detects)
		Fenthion	-21.0 (±15%)		J(detects)/UJ(non-detects)
		Chloropyrifos	-24.6 (±15%)		J(detects)/UJ(non-detects)
		Trichloronate	-19.4 (±15%)		J(detects)/UJ(non-detects)
		Merphos	-18.9 (±15%)		J(detects)/UJ(non-detects)
		Fensulfothion	-80.7 (±15%)		J(detects)/UJ(non-detects)
		Stirophos	-26.1 (±15%)		J(detects)/UJ(non-detects)
		Sulprofos	-25.4 (±15%)		J(detects)/UJ(non-detects)
		Guthion	-284.8 (±15%)		J(detects)/UJ(non-detects)
		Coumaphos	-114.7 (±15%)		J(detects)/UJ(non-detects)
02/25/95 04:39	RF1000/RTX-5	Dichlorvos	-26.5 (±15%)	060S000101	None (confirmation only)
		Mevinphos, alpha	-46.8 (±15%)	060S000107	None (confirmation only)
		Demeton, o	-30.6 (±15%)	060S000114	None (confirmation only)
		Ethoprop	-21.8 (±15%)	060S000127	None (confirmation only)
		Naled	-76.1 (±15%)	060C000127	J(detects)/UJ(non-detects)
		Phorate	-21.7 (±15%)	060S000401	J(detects)/UJ(non-detects)
		Demeton, s	-38.0 (±15%)	060S000409	None (confirmation only)
		Diazinon	-25.0 (±15%)	060S000415	None (confirmation only)
		Disulfoton	-20.8 (±15%)		None (confirmation only)
		Methyl parathion	-44.2 (±15%)		None (confirmation only)
		Ronnel	-28.1 (±15%)		None (confirmation only)
		Fenthion	-48.1 (±15%)		None (confirmation only)
		Chloropyrifos	-15.9 (±15%)		None (confirmation only)
		Trichloronate	-24.0 (±15%)		None (confirmation only)
		Merphos	-27.6 (±15%)		J(detects)/UJ(non-detects)
		Tokuthion	-28.7 (±15%)		None (confirmation only)
		Fensulfothion	-131.8 (±15%)		None (confirmation only)
		Stirophos	-112.3 (±15%)		None (confirmation only)
		Sulprofos	-31.5 (±15%)		None (confirmation only)
		Guthion	-252.3 (±15%)		J(detects)/UJ(non-detects)
		Coumaphos	-120.2 (±15%)		None (confirmation only)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency and were free of contamination except for the following:

Date	Blank	Compound	Conc. (µg/L)	Action Level 5x conc. (µg/L)	Associated Samples	Reported Conc. (xx/xx)	Modified Conc. (xx/xx)
02/13/95	NIBLK01	Mevinphos alpha	3.7	18.5	None (confirmation only)		

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
060S000409	RTX-5	Mevinphos, alpha	152 (50-150%)			None (confirmation only)
		Naled	48 (50-150%)			J(detects)/UJ(non-detects)
		Merphos	13 (50-150%)	0 (50-150%)	200 (≤25%)	J(detects)/UJ(non-detects)
		Fensulfothion	262 (50-150%)	286 (50-150%)		None (confirmation only)
		Stirophos	171 (50-150%)	167 (50-150%)		None (confirmation only)
		Guthion	286 (50-150%)	286 (50-150%)		J(detects)/None(non-detects)
		Coumaphos	202 (50-150%)	202 (50-150%)		None (confirmation only)
60S000409	RTX-35	Merphos	0 (50-150%)	0 (50-150%)		None (confirmation only)
		Fensulfothion	183 (50-150%)	179 (50-150%)		J(detects)/None(non-detects)
		Guthion	310 (50-150%)	262 (50-150%)		None (confirmation only)
		Coumaphos	179 (50-150%)	164 (50-150%)		J(detects)/None(non-detects)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
02/23/95	NLCS20206S	RTX-35	Merphos	0 (50-150%)	0.00 (37.44-37.59)	005S000607	None (confirmation only)
			Guthion	32.0 (50-150%)		005S000612	None (confirmation only)
						005S000701	
						005S000710	
						005S000712	
						005C000712	
						060S000101	
						060S000107	
						060S000114	
						060S000127	
						060C000127	
						060S000401	
						060S000409	
						060S000415	

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
02/23/95	NLCS202065	RTX-5	Merphos Stirophos Guthion	0 (50-150%) 46.7 (50-150%) 33.8 (50-150%)	0.00 (32.65-32.85)	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000101 060S000107 060S000114 060S000127 060C000127 060S000401 060S000409 060S000415	J(detects)/R(non-detects) None (confirmation only) J(detects)/UJ(non-detects)

IX. ESTERIFICATION SPIKE SAMPLE

No esterification spike samples were analyzed for this SDG.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were properly identified.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1315

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000101 060S000107 060S000114 060S000127 060C000127 060S000401 060S000409 060S000415 060F013195	Naled Guthion Mevinphos, alpha Fensulfothion Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Initial calibration %RSD
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000101	Naled Phorate Merphos Guthion Demeton, s Diazinon Methyl parathion Ronnel Fensulfothion Stirophos Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1315	060S000101	Naled Merphos Guthion Demeton, o Fensulfothion Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1315	060S000101 060S000107 060S000114 060S000127 060C000127 060S000401 060S000409 060S000415	Naled Phorate Merphos Guthion Dichlorvos Mevinphos, alpha Demeton, o Ethoprop Demeton, s Trichloronate Diazinon Disulfoton Methyl parathion Ronnel Fenthion Chloropyrifos Fensulfothion Stirophos Sulprofos Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	005S000710 005S000712 005C000712 060S000101	Dichlorvos Mevinphos, alpha Demeton, o Demeton, s Diazinon Methyl parathion Ronnel Fenthion Fensulfothion Stirophos Sulprofos Coumaphos Phorate Merphos Guthion	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/UJ(non-detects)	Continuing calibration %D
FD1315	060S000409	Naled Merphos Guthion Fensulfothion Coumaphos	J(detects)/UJ(non-detects) J(detects)/UJ(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects) J(detects)/None(non-detects)	Matrix spike/matrix spike duplicate %R
FD1315	005S000607 005S000612 005S000701 005S000710 005S000712 005C000712 060S000101 060S000107 060S000114 060S000127 060C000127 060S000401 060S000409 060S000415	Merphos Guthion	J(detects)/R(non-detects) J(detects)/UJ(non-detects)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	GLYCOL
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00265, 95.00266, 95.00303, & 95.00304 (Level III Validation)
Case Nº:	FD1315

Sample Identification	Matrix
005S000607	Soil
005S000612	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
005C000712	Soil

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INTRODUCTION

This data review report covers 6 soil samples listed on the cover page. The analyses were per Modified 8015 protocol based on USEPA Method 8015, SW 846, 3rd Ed., 1986 as described in LUFT Field Manual, Oct. 1989, CA.

This review follows the approach of USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

No raw data checks were carried out for this package, the review was based on QC data.

I. TECHNICAL HOLDING TIMES

All holding time requirements were not met for this package, thus the data were qualified as follows:

Sample	Matrix	Out of Limit Analysis Holding Time/ QC Limit	Flag
005S000607 005S000612 005S000701 005S000710 005S000712 005C000712	Soil	26/14	J(detect)/UJ(non-detects)

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

Percent relative standard deviations (%RSD) were less than 20.0 percent for all parameters except for the following:

Date	Time	Parameter	%RSD	QC Limit	Associated Samples	Flag
02/23/95	17:11	Tetraethylene Glycol	20.7	20%	All	+J/-UJ

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the average initial calibration and the continuing calibration were within ±15.0 percent except for the following:

Date	Time	Parameter	%D	QC Limit	Associated Samples	Flag
02/24/95	01:42	Tetraethylene Glycol Triethylene Glycol	58.2 30.7	±15% ±15%	None	N/A
02/24/95	06:43	Tetraethylene Glycol Triethylene Glycol	50.3 25.8	±15% ±15%	None	N/A
02/24/95	09:18	Tetraethylene Glycol	31.9	±15%	All	J(detects)/UJ(non-detects)
02/24/95	18:58	Tetraethylene Glycol Triethylene Glycol	41.5 31.1	±15% ±15%	All	J(detects)/UJ(non-detects)

IV. BLANKS

The method blank analyses were performed at required frequencies.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed in this package.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Compound	%R	QC Limit	Associated Samples	Flag
MD17	Tetraethylene Glycol	36	40-120%	All	J(detects)/UJ(non-detects)

VII. PARAMETER IDENTIFICATION

No raw data checks were carried out for this package.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data checks were carried out for this package.

IX. SYSTEM PERFORMANCE

No raw data checks were carried out for this package.

X. FIELD DUPLICATES

One set of field duplicates was analyzed in this package. No target analytes were detected in any of the samples.

XI. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Glycol Data Qualification Summary - Case Nº FD1315

Case Nº	Sample ID	Parameter	Flag	Reason
FD1315	All	Tetraethylene Glycol	J(detects)/UJ(non-detects)	Initial calibration %RSD
FD1315	All	Tetraethylene Glycol Triethylene Glycol	J(detects)/UJ(non-detects)	Continuing calibration %D
FD1315	All	Tetraethylene Glycol	J(detects)/UJ(non-detects)	Laboratory control sample %R
FD1315	All	All	J(detects)/UJ(non-detects)	Holding Time

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00265, 95.00266, 95.00303, & 95.00304 (Level III Validation)
Case Nº:	FD1315

Sample Identification	Matrix
005E012895	Water
005F012995	Water
005P012995	Water
060F013195	Water
005S000607	Soil
005S000612	Soil
005S000701	Soil
005S000710	Soil
005S000712	Soil
005C000712	Soil
060S000101	Soil
060S000107	Soil
060S000114	Soil
060S000127	Soil
060C000127	Soil
060S000401	Soil
060S000415	Soil
060S000409	Soil

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INTRODUCTION

This data review report covers 14 soil samples and 4 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within ±15.0 percent.

IV. BLANKS

The method blank analyses were performed at required frequencies.

No contaminant was found in the method blank(s).

The field blank analyses were performed at required frequencies.

No contaminant was found in the field blank(s).

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were outside the advisory limits of 75-125%.

Sample	Spiked Compound	MS %R (Limit)	MSD %R (Limit)	RPD (Limit)	Flag
060S000409	TPH	151.5 (75-125%)	151.5 (75-125%)		J(detect)/None(non-detect)

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1315

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1315	060S000409	TPH	J(detect)/None(non-detect)	MS/MSD %R out

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 HERB													
	SAMPLE ID ------->	005-S-0006-07		005-S-0006-12		005-S-0007-01		005-S-0007-10		005-S-0007-12		005-C-0007-12	
	ORIGINAL ID ----->	005S000607		005S000612		005S000701		005S000710		005S000712		005C000712	
	LAB SAMPLE ID --->	116003		116004		116005		116006		116007		116008	
	SAMPLE DATE ----->	01/29/95		01/29/95		01/29/95		01/29/95		01/29/95		01/29/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.5	UJ
88-85-7	Dinoseb	4.7	UR	4.7	UR	9.5	UR	4.7	UR	4.7	UR	4.7	UR
93-76-5	2,4,5-T	0.95	UJ	0.95	UJ	4.7	UJ	0.95	UJ	0.95	UJ	0.95	UJ
93-72-1	2,4,5-TP (Silvex)	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U
75-99-0	Dalapon	23.	U	23.	U	23.	U	23.	U	23.	U	23.	U
1918-00-9	Dicamba	0.94	UJ	0.94	UJ	0.94	UJ	0.94	UJ	0.94	UJ	0.94	UJ
120-36-5	Dichlorprop	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ
94-75-7	2,4-D	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 HERB	SAMPLE ID ------->	060-S-0001-01		060-S-0001-07		060-S-0001-14		060-S-0001-27		060-C-0001-27		060-S-0004-01	
	ORIGINAL ID ----->	060S000101		060S000107		060S000114		060S000127		060C000127		060S000401	
	LAB SAMPLE ID --->	116129		116130		116131		116132		116133		116134	
	SAMPLE DATE ----->	01/31/95				01/31/95		01/31/95		01/31/95		01/31/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	U	9.4	UR	9.4	U	0.95	U	9.5	U	9.5	U
88-85-7	Dinoseb	4.7	UJ	4.7	UR	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ
93-76-5	2,4,5-T	0.95	U	0.95	UR	0.95	U	9.5	U	0.94	U	0.95	U
93-72-1	2,4,5-TP (Silvex)	0.95	UJ	0.95	UR	0.95	UJ	9.5	UJ	0.95	UJ	0.95	UJ
75-99-0	Dalapon	23.	U	23.	UR	23.	U	23.	U	23.	U	23.	U
1918-00-9	Dicamba	0.94	U	9.4	UR	0.94	U	0.94	U	0.94	U	0.94	U
120-36-5	Dichlorprop	9.4	U	9.4	UR	9.4	U	0.94	U	0.94	U	9.4	U
94-74-6	MCPA	940.	UJ	940.	UR	940.	UJ	940.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	940.	UJ	39000.	J	3300.	J	940.	UJ	940.	UJ	940.	UJ
94-75-7	2,4-D	9.4	UJ	9.4	UR	9.4	UJ	0.94	UJ	0.94	UJ	9.4	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 HERB							
	SAMPLE ID ------->	060-S-0004-09		060-S-0004-15			
	ORIGINAL ID ----->	060S000409		060S000415			
	LAB SAMPLE ID --->	116135		116136			
	SAMPLE DATE ----->	01/31/95		01/31/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A		
CAS #	Parameter						
94-82-6	2,4-DB	9.5	UJ	9.4	U		
88-85-7	Dinoseb	12.	J	4.8	UJ		
93-76-5	2,4,5-T	0.95	UJ	0.95	U		
93-72-1	2,4,5-TP (Silvex)	0.95	UJ	0.95	UJ		
75-99-0	Dalapon	23.	UR	23.	U		
1918-00-9	Dicamba	9.4	UJ	0.94	U		
120-36-5	Dichlorprop	9.4	UJ	9.4	UJ		
94-74-6	MCPA	940.	UJ	940.	UJ		
93-65-2	MCPP	940.	UR	940.	UJ		
94-75-7	2,4-D	0.95	UJ	9.4	UJ		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 HYDROCARBN						
SAMPLE ID ------->	005-S-0006-07	005-S-0006-12	005-S-0007-01	005-S-0007-10	005-S-0007-12	005-C-0007-12
ORIGINAL ID ----->	005S000607	005S000612	005S000701	005S000710	005S000712	005C000712
LAB SAMPLE ID --->	116003	116004	116005	116006	116007	116008
SAMPLE DATE ----->	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95
DATE ANALYZED --->	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
107-21-1 Ethylene glycol	12000. UJ	9700. UJ	14000. UJ	25000. UJ	7200. UJ	10000. UJ
111-46-6 Diethylene Glycol	12000. UJ	9700. UJ	14000. UJ	25000. UJ	7200. UJ	10000. UJ
112-27-6 Triethylene Glycol	12000. UJ	9700. UJ	14000. UJ	25000. UJ	7200. UJ	10000. UJ
112-60-7 Tetraethylene Glycol	12000. UJ	9700. UJ	14000. UJ	25000. UJ	7200. UJ	10000. UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 METAL						
SAMPLE ID ------->	005-S-0006-07	005-S-0006-12	005-S-0007-01	005-S-0007-10	005-S-0007-12	005-C-0007-12
ORIGINAL ID ----->	005S000607	005S000612	005S000701	005S000710	005S000712	005C000712
LAB SAMPLE ID --->	6-116015S	6-116016S	6-116017S	6-116018S	6-116019S	6-116020S
SAMPLE DATE ----->	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
SB Antimony	10.4 UJ	10.6 UJ	10.5 UJ	11.2 UJ	10.4 UJ	10.4 UJ
AS Arsenic	7.5	3.5	7.7	11.9	2.6 J	26. J
BA Barium	228.	104.	181.	375.	106.	106.
BE Beryllium	0.88 J	0.47 J	0.64 J	1.1 J	0.45 J	0.49 J
CD Cadmium	4.	2.8	3.	8.1 J	2.3	2.4
CR Chromium	20.6	17.4	19.2	32.8	15.3	18.
CO Cobalt	6.9 J	6.9 J	7.5 J	15.8	6.8 J	6.7 J
CU Copper	21.5	13.2	17.9	29.6	12.4	12.4
PB Lead	11.9	10.4	30.7	26.4	8.4	9.
HG Mercury	0.13 U	0.13 U	0.13 U	0.14 U	0.13 U	0.13 U
NI Nickel	23.8	14.6	17.3	36.	15.7	18.1
SE Selenium	0.68 U	0.92 U	0.81 U	0.65 UJ	0.75 UJ	0.98 U
AG Silver	0.78 U	0.8 U	0.79 U	0.84 U	0.78 U	0.78 U
TL Thallium	0.52 U	0.53 U	0.52 U	0.56 U	0.52 U	0.52 U
V Vanadium	29.6	29.9	26.9	46.5	30.1	34.6
ZN Zinc	84.6	54.	73.1	121.	45.4	49.5
SN Tin	12. U	6.2 U	10.6 U	19.2 U	11.4 U	14.9 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 METAL													
	SAMPLE ID ------->	060-S-0001-01		060-S-0001-07		060-S-0001-14		060-S-0001-27		060-C-0001-27		060-S-0004-01	
	ORIGINAL ID ----->	060S000101		060S000107		060S000114		060S000127		060C000127		060S000401	
	LAB SAMPLE ID --->	4-116139S		4-116140S		4-116141S		4-116142S		4-116143S		4-116144S	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/31/95		01/31/95		01/31/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	9.6	UJ	10.4	UJ	10.3	UJ	10.	UJ	9.6	UJ	10.1	UJ
AS	Arsenic	3.8		7.		3.7		1.3	U	1.8	UJ	9.2	
BA	Barium	37.4	J	53.2		76.7		79.9		75.4		77.3	
BE	Beryllium	0.26	J	0.26	U	0.37	J	0.55	J	0.44	J	0.44	J
CD	Cadmium	2.1		1.3		2.8		2.7		2.5		3.1	
CR	Chromium	8.1		8.6		13.5		15.9		15.7		16.8	
CO	Cobalt	3.	J	4.5	J	5.3	J	5.9	J	6.5	J	7.	J
CU	Copper	8.		6.	J	13.6		9.8		8.9		13.3	
PB	Lead	14.2		11.3		7.8		6.8		7.4		11.8	
HG	Mercury	0.12	U	0.13	U	0.13	U	0.13	U	0.12	U	0.13	U
NI	Nickel	7.3	J	4.8	J	17.		9.1	J	10.6		12.7	
SE	Selenium	0.85	UJ	0.52	U	0.65	UJ	0.59	UJ	0.57	U	0.62	U
AG	Silver	0.86	J	0.99	J	0.77	U	0.75	U	0.72	U	0.75	U
TL	Thallium	0.48	UJ	0.52	UJ	0.51	UJ	0.5	U	0.48	U	0.5	U
V	Vanadium	11.1	J	14.9		21.1		28.3		25.		35.8	
ZN	Zinc	20.7		32.3		39.5		25.5		25.9		46.2	
SN	Tin	14.	U	8.7	U	7.	U	17.	U	24.6	U	11.8	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 METAL							
	SAMPLE ID ------->	060-S-0004-09		060-S-0004-15			
	ORIGINAL ID ----->	060S000409		060S000415			
	LAB SAMPLE ID --->	4-116145S		4-116146S			
	SAMPLE DATE ----->	01/31/95		01/31/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	MG/KG	A	MG/KG	A		
CAS #	Parameter						
SB	Antimony	10.3	UJ	10.2	UJ		
AS	Arsenic	7.3		10.4			
BA	Barium	110.		99.9			
BE	Beryllium	0.44	J	0.34	J		
CD	Cadmium	3.		2.6			
CR	Chromium	13.3		11.5			
CO	Cobalt	7.5	J	6.5	J		
CU	Copper	15.8		16.5			
PB	Lead	8.8		9.4			
HG	Mercury	0.13	U	0.13	U		
NI	Nickel	19.		16.1			
SE	Selenium	0.52	U	0.62	UJ		
AG	Silver	0.78	U	0.76	U		
TL	Thallium	0.52	U	0.51	U		
V	Vanadium	25.5		18.2			
ZN	Zinc	53.3		43.8			
SN	Tin	14.	U	8.5	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 METAL-CN						
SAMPLE ID ------->	005-S-0006-07	005-S-0006-12	005-S-0007-01	005-S-0007-10	005-S-0007-12	005-C-0007-12
ORIGINAL ID ----->	005S000607	005S000612	005S000701	005S000710	005S000712	005C000712
LAB SAMPLE ID --->	116015	116016	116017	116018	116019	116020
SAMPLE DATE ----->	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95
DATE EXTRACTED -->	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95
DATE ANALYZED --->	02/10/95	02/10/95	02/10/95	02/10/95	02/10/95	02/13/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.64 U	0.63 U	0.65 U	0.69 U	0.64 U	0.64 UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 METAL-CN						
SAMPLE ID ------->	060-S-0001-01	060-S-0001-07	060-S-0001-14	060-S-0001-27	060-C-0001-27	060-S-0004-01
ORIGINAL ID ----->	060S000101	060S000107	060S000114	060S000127	060C000127	060S000401
LAB SAMPLE ID --->	116139	116140	116141	116142	116143	116144
SAMPLE DATE ----->	01/31/95	01/31/95	01/31/95	01/31/95	01/31/95	01/31/95
DATE EXTRACTED -->	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95
DATE ANALYZED --->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.59 U	0.64 U	0.63 U	0.62 U	0.59 U	0.62 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 METAL-CN							
	SAMPLE ID ------->	060-S-0004-09	060-S-0004-15				
	ORIGINAL ID ----->	060S000409	060S000415				
	LAB SAMPLE ID --->	116145	116146				
	SAMPLE DATE ----->	01/31/95	01/31/95				
	DATE EXTRACTED -->	02/06/95	02/06/95				
	DATE ANALYZED --->	02/13/95	02/13/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	MG/KG A	MG/KG A				
CAS #	Parameter						
CN	Cyanide	0.65 U	0.63 U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 OP PEST													
	SAMPLE ID ------->	005-S-0006-07		005-S-0006-12		005-S-0007-01		005-S-0007-10		005-S-0007-12		005-C-0007-12	
	ORIGINAL ID ----->	005S000607		005S000612		005S000701		005S000710		005S000712		005C000712	
	LAB SAMPLE ID --->	116003		116004		116005		116006		116007		116008	
	SAMPLE DATE ----->	01/29/95		01/29/95		01/29/95		01/29/95		01/29/95		01/29/95	
	DATE EXTRACTED -->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE ANALYZED --->	02/23/95		02/23/95		02/23/95		02/23/95		02/23/95		02/24/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	220.	UJ	220.	UJ	210.	UJ	230.	UJ	220.	UJ	220.	UJ
35400-43-2	Sulprofos	110.	U	110.	U	110.	U	120.	UJ	110.	UJ	110.	UJ
2921-88-2	Chloropyrifos	110.	U	110.	U	110.	U	120.	U	110.	U	110.	U
56-72-4	Coumaphos	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
8065-48-3	Demeton,O	110.	U	110.	U	110.	U	120.	UJ	110.	UJ	110.	UJ
333-41-5	Diazinon	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
62-73-7	Dichlorvos	110.	U	110.	U	110.	U	120.	UJ	110.	UJ	110.	UJ
298-04-4	Disulfoton	110.	U	110.	U	110.	U	120.	U	110.	U	110.	U
13194-48-4	Ethoprop	110.	U	110.	U	110.	U	120.	U	110.	U	110.	U
115-90-2	Fensulfothion	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
55-38-9	Fenthion	110.	U	110.	U	110.	U	120.	UJ	110.	UJ	110.	UJ
150-50-5	Merphos	110.	UR	110.	UR	110.	UR	120.	UR	110.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
300-76-5	Naled	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
298-00-0	Methyl parathion	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
298-02-2	Phorate	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
299-84-3	Ronnel	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ
34643-46-4	Tokuthion	110.	U	110.	U	110.	U	120.	U	110.	U	110.	U
327-98-0	Trichloronate	110.	U	110.	U	110.	U	120.	U	110.	U	110.	U
126-75-0	Demeton,S	110.	UJ	110.	UJ	110.	UJ	120.	UJ	110.	UJ	110.	UJ

*** Validation Complete ***

FD1315 OP PEST													
	SAMPLE ID ------->	060-S-0001-01		060-S-0001-07		060-S-0001-14		060-S-0001-27		060-C-0001-27		060-S-0004-01	
	ORIGINAL ID ----->	060S000101		060S000107		060S000114		060S000127		060C000127		060S000401	
	LAB SAMPLE ID --->	116129		116130		116131		116132		116133		116134	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/31/95		01/31/95		01/31/95	
	DATE EXTRACTED -->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE ANALYZED --->	02/25/95		02/25/95		02/25/95		02/25/95		02/25/95		02/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	190.	UJ	210.	UJ	210.	UJ	210.	UJ	210.	UJ	200.	UJ
35400-43-2	Sulprofos	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
2921-88-2	Chloropyrifos	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
56-72-4	Coumaphos	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
8065-48-3	Demeton,O	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
333-41-5	Diazinon	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
62-73-7	Dichlorvos	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
298-04-4	Disulfoton	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
13194-48-4	Ethoprop	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
115-90-2	Fensulfothion	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
55-38-9	Fenthion	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
150-50-5	Merphos	95.	UR	110.	UR	110.	UR	110.	UR	100.	UR	100.	UR
7786-34-7	Mevinphos, Alpha	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
300-76-5	Naled	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
298-00-0	Methyl parathion	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
298-02-2	Phorate	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
299-84-3	Ronnel	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
34643-46-4	Tokuthion	95.	U	110.	U	110.	U	110.	U	100.	U	100.	U
327-98-0	Trichloronate	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ
126-75-0	Demeton,S	95.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ	100.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1315 OP PEST							
	SAMPLE ID ------->	060-S-0004-09		060-S-0004-15			
	ORIGINAL ID ----->	060S000409		060S000415			
	LAB SAMPLE ID --->	116135		116136			
	SAMPLE DATE ----->	01/31/95		01/31/95			
	DATE EXTRACTED -->	02/07/95		02/07/95			
	DATE ANALYZED --->	02/25/95		02/25/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A		
CAS #	Parameter						
86-50-0	Guthion	210.	UJ	210.	UJ		
35400-43-2	Sulprofos	110.	UJ	110.	UJ		
2921-88-2	Chloropyrifos	110.	UJ	110.	UJ		
56-72-4	Coumaphos	110.	UJ	110.	UJ		
8065-48-3	Demeton,O	110.	UJ	110.	UJ		
333-41-5	Diazinon	110.	UJ	110.	UJ		
62-73-7	Dichlorvos	110.	UJ	110.	UJ		
298-04-4	Disulfoton	110.	UJ	110.	UJ		
13194-48-4	Ethoprop	110.	UJ	110.	UJ		
115-90-2	Fensulfothion	110.	UJ	110.	UJ		
55-38-9	Fenthion	110.	UJ	110.	UJ		
150-50-5	Merphos	110.	UR	110.	UR		
7786-34-7	Mevinphos, Alpha	110.	UJ	110.	UJ		
300-76-5	Naled	110.	UJ	110.	UJ		
298-00-0	Methyl parathion	110.	UJ	110.	UJ		
298-02-2	Phorate	110.	UJ	110.	UJ		
299-84-3	Ronnel	110.	UJ	110.	UJ		
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	UJ	110.	UJ		
34643-46-4	Tokuthion	110.	U	110.	U		
327-98-0	Trichloronate	110.	UJ	110.	UJ		
126-75-0	Demeton,S	110.	UJ	110.	UJ		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 PEST													
	SAMPLE ID ------->	005-S-0006-07		005-S-0006-12		005-S-0007-01		005-S-0007-10		005-S-0007-12		005-C-0007-12	
	ORIGINAL ID ----->	005S000607		005S000612		005S000701		005S000710		005S000712		005C000712	
	LAB SAMPLE ID --->	116015		116016		116017		116018		116019		116020	
	SAMPLE DATE ----->	01/29/95		01/29/95		01/29/95		01/29/95		01/29/95		01/29/95	
	DATE EXTRACTED -->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95		02/10/95	
	DATE ANALYZED --->	02/27/95		02/27/95		02/27/95		02/28/95		02/28/95		02/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
319-85-7	beta-BHC	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
319-86-8	delta-BHC	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
76-44-8	Heptachlor	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
309-00-2	Aldrin	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
1024-57-3	Heptachlor epoxide	12.	J	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
959-98-8	Endosulfan I	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
60-57-1	Dieldrin	103.	D	4.3	U	29.		4.5	U	4.2	U	4.2	U
72-55-9	4,4'-DDE	4.2	U	4.3	U	4.4	U	4.5	U	4.2	U	4.2	U
72-20-8	Endrin	4.2	U	4.3	U	4.4	U	4.5	U	4.2	U	4.2	U
33213-65-9	Endosulfan II	4.2	U	4.3	U	4.4	U	4.5	U	4.2	U	4.2	U
72-54-8	4,4'-DDD	4.2	U	4.3	U	4.4	U	4.5	U	4.2	U	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U	4.3	U	4.4	U	4.5	U	4.2	U	4.2	U
50-29-3	4,4'-DDT	4.2	U	4.3	U	5.3	J	4.5	U	4.2	U	4.2	U
72-43-5	Methoxychlor	22.	U	22.	U	23.	U	23.	U	22.	U	22.	U
53494-70-5	Endrin ketone	4.2	U	4.3	U	4.4	U	4.5	U	4.2	U	4.2	U
7421-36-3	Endrin aldehyde	4.2	U	4.3	U	4.4	U	4.5	U	4.2	U	4.2	U
5103-71-9	alpha-Chlordane	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
5103-74-2	gamma-Chlordane	2.2	U	2.2	U	2.3	U	2.3	U	2.2	U	2.2	U
8001-35-2	Toxaphene	42.	U	43.	U	44.	U	45.	U	42.	U	42.	U
12674-11-2	Aroclor-1016	42.	U	43.	U	44.	U	45.	U	42.	U	42.	U
11104-28-2	Aroclor-1221	42.	U	43.	U	44.	U	45.	U	42.	U	42.	U
11141-16-5	Aroclor-1232	42.	U	43.	U	44.	U	45.	U	42.	U	42.	U
53469-21-9	Aroclor-1242	42.	U	43.	U	44.	U	45.	U	42.	U	42.	U
12672-29-6	Aroclor-1248	42.	U	43.	U	44.	U	45.	U	42.	U	42.	U
11097-69-1	Aroclor-1254	42.	U	43.	U	44.	U	45.	U	42.	U	42.	U
11096-82-5	Aroclor-1260	42.	U	43.	U	47.	J	45.	U	42.	U	42.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 PEST													
	SAMPLE ID ------->	060-S-0001-01DL		060-S-0001-07DL		060-S-0001-14		060-S-0001-27		060-C-0001-27		060-S-0004-01	
	ORIGINAL ID ----->	060S000101DL		060S000107DL		060S000114		060S000127		060C000127		060S000401	
	LAB SAMPLE ID --->	116139_20DL		116140_10DL		116141		116142		116143		116144	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/31/95		01/31/95		01/31/95	
	DATE EXTRACTED -->	02/14/95		02/14/95		02/14/95		02/14/95		02/14/95		02/14/95	
	DATE ANALYZED --->	02/28/95		02/28/95		02/28/95		02/28/95		02/28/95		02/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
319-85-7	beta-BHC	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
319-86-8	delta-BHC	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
58-89-9	gamma-BHC (Lindane)	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
76-44-8	Heptachlor	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
309-00-2	Aldrin	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
1024-57-3	Heptachlor epoxide	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
959-98-8	Endosulfan I	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
60-57-1	Dieldrin	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
72-55-9	4,4'-DDE	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
72-20-8	Endrin	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
33213-65-9	Endosulfan II	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
72-54-8	4,4'-DDD	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
1031-07-8	Endosulfan sulfate	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
50-29-3	4,4'-DDT	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
72-43-5	Methoxychlor	410.	U	210.	U	22.	U	22.	U	21.	U	22.	U
53494-70-5	Endrin ketone	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
7421-36-3	Endrin aldehyde	80.	U	41.	U	4.2	U	4.3	U	4.1	U	4.2	U
5103-71-9	alpha-Chlordane	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
5103-74-2	gamma-Chlordane	41.	U	21.	U	2.2	U	2.2	U	2.1	U	2.2	U
8001-35-2	Toxaphene	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U
12674-11-2	Aroclor-1016	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U
11104-28-2	Aroclor-1221	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U
11141-16-5	Aroclor-1232	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U
53469-21-9	Aroclor-1242	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U
12672-29-6	Aroclor-1248	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U
11097-69-1	Aroclor-1254	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U
11096-82-5	Aroclor-1260	800.	U	410.	U	42.	U	43.	U	41.	U	42.	U

*** Validation Complete ***

FD1315 PEST							
	SAMPLE ID ------->	060-S-0004-09		060-S-0004-15			
	ORIGINAL ID ----->	060S000409		060S000415			
	LAB SAMPLE ID --->	116145		116146			
	SAMPLE DATE ----->	01/31/95		01/31/95			
	DATE EXTRACTED -->	02/14/95		02/14/95			
	DATE ANALYZED --->	02/28/95		02/28/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A		
CAS #	Parameter						
319-84-6	alpha-BHC	2.2	U	2.3	U		
319-85-7	beta-BHC	2.2	U	2.3	U		
319-86-8	delta-BHC	2.2	U	2.3	U		
58-89-9	gamma-BHC (Lindane)	2.2	U	2.3	U		
76-44-8	Heptachlor	2.2	U	2.3	U		
309-00-2	Aldrin	2.2	U	2.3	U		
1024-57-3	Heptachlor epoxide	2.2	U	2.3	U		
959-98-8	Endosulfan I	2.2	U	2.3	U		
60-57-1	Dieldrin	4.3	U	4.4	U		
72-55-9	4,4'-DDE	4.3	U	4.4	U		
72-20-8	Endrin	4.3	U	4.4	U		
33213-65-9	Endosulfan II	4.3	U	4.4	U		
72-54-8	4,4'-DDD	4.3	U	4.4	U		
1031-07-8	Endosulfan sulfate	4.3	UJ	4.4	U		
50-29-3	4,4'-DDT	4.3	U	4.4	U		
72-43-5	Methoxychlor	22.	U	23.	U		
53494-70-5	Endrin ketone	4.3	U	4.4	U		
7421-36-3	Endrin aldehyde	4.3	U	4.4	U		
5103-71-9	alpha-Chlordane	2.2	U	2.3	U		
5103-74-2	gamma-Chlordane	2.2	U	2.3	U		
8001-35-2	Toxaphene	43.	U	44.	U		
12674-11-2	Aroclor-1016	43.	U	44.	U		
11104-28-2	Aroclor-1221	43.	U	44.	U		
11141-16-5	Aroclor-1232	43.	U	44.	U		
53469-21-9	Aroclor-1242	43.	U	44.	U		
12672-29-6	Aroclor-1248	43.	U	44.	U		
11097-69-1	Aroclor-1254	43.	U	44.	U		
11096-82-5	Aroclor-1260	43.	U	44.	U		

*** Validation Complete ***

FD1315 SVOA													
	SAMPLE ID ------->	005-S-0006-07		005-S-0006-12		005-S-0007-01		005-S-0007-10		005-S-0007-12		005-C-0007-12	
	ORIGINAL ID ----->	005S000607		005S000612		005S000701		005S000710		005S000712		005C000712	
	LAB SAMPLE ID --->	116015		116016		116017		116018		116019		116020	
	SAMPLE DATE ----->	01/29/95		01/29/95		01/29/95		01/29/95		01/29/95		01/29/95	
	DATE EXTRACTED -->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE ANALYZED --->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
67-72-1	Hexachloroethane	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
78-59-1	Isophorone	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
88-75-5	2-Nitrophenol	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
105-67-9	2,4-Dimethylphenol	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
111-91-1	bis(2-Chloroethoxy)methane	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
120-83-2	2,4-Dichlorophenol	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
120-82-1	1,2,4-Trichlorobenzene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
91-20-3	Naphthalene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
106-47-8	4-Chloroaniline	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
87-68-3	Hexachlorobutadiene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
59-50-7	4-Chloro-3-methylphenol	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
91-57-6	2-Methylnaphthalene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
77-47-4	Hexachlorocyclopentadiene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
88-06-2	2,4,6-Trichlorophenol	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
95-95-4	2,4,5-Trichlorophenol	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
91-58-7	2-Chloronaphthalene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
88-74-4	2-Nitroaniline	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
131-11-3	Dimethylphthalate	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
208-96-8	Acenaphthylene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
606-20-2	2,6-Dinitrotoluene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
99-09-2	3-Nitroaniline	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
83-32-9	Acenaphthene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
51-28-5	2,4-Dinitrophenol	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
100-02-7	4-Nitrophenol	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
132-64-9	Dibenzofuran	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
121-14-2	2,4-Dinitrotoluene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
84-66-2	Diethylphthalate	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
7005-72-3	4-Chlorophenylphenylether	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
86-73-7	Fluorene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
100-01-6	4-Nitroaniline	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
86-30-6	N-Nitrosodiphenylamine	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
101-55-3	4-Bromophenylphenylether	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
118-74-1	Hexachlorobenzene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
87-86-5	Pentachlorophenol	1000.	UJ	1000.	UJ	1100.	UJ	1100.	UJ	1000.	UJ	1000.	UJ
85-01-8	Phenanthrene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 SVOA													
	SAMPLE ID ------->	005-S-0006-07		005-S-0006-12		005-S-0007-01		005-S-0007-10		005-S-0007-12		005-C-0007-12	
	ORIGINAL ID ----->	005S000607		005S000612		005S000701		005S000710		005S000712		005C000712	
	LAB SAMPLE ID --->	116015		116016		116017		116018		116019		116020	
	SAMPLE DATE ----->	01/29/95		01/29/95		01/29/95		01/29/95		01/29/95		01/29/95	
	DATE EXTRACTED -->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE ANALYZED --->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
86-74-8	Carbazole	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
84-74-2	Di-n-butylphthalate	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
206-44-0	Fluoranthene	420.	UJ	430.	UJ	180.	J	460.	UJ	430.	UJ	430.	UJ
129-00-0	Pyrene	420.	UJ	430.	UJ	170.	J	460.	UJ	430.	UJ	430.	UJ
85-68-7	Butylbenzylphthalate	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
91-94-1	3,3'-Dichlorobenzidine	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
56-55-3	Benzo(a)anthracene	420.	UJ	430.	UJ	140.	J	460.	UJ	430.	UJ	430.	UJ
218-01-9	Chrysene	420.	UJ	430.	UJ	140.	J	460.	UJ	430.	UJ	430.	UJ
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	57.	J	64.	J	67.	J	64.	J	96.	J	100.	J
117-84-0	Di-n-octylphthalate	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
205-99-2	Benzo(b)fluoranthene	420.	UJ	430.	UJ	140.	J	460.	UJ	430.	UJ	430.	UJ
207-08-9	Benzo(k)fluoranthene	420.	UJ	430.	UJ	130.	J	460.	UJ	430.	UJ	430.	UJ
50-32-8	Benzo(a)pyrene	420.	UJ	430.	UJ	150.	J	460.	UJ	430.	UJ	430.	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	420.	UJ	430.	UJ	67.	J	460.	UJ	430.	UJ	430.	UJ
53-70-3	Dibenzo(a,h)anthracene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
191-24-2	Benzo(g,h,i)perylene	420.	UJ	430.	UJ	77.	J	460.	UJ	430.	UJ	430.	UJ
108-95-2	Phenol	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
111-44-4	bis(2-Chloroethyl)ether	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
95-57-8	2-Chlorophenol	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
541-73-1	1,3-Dichlorobenzene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
106-46-7	1,4-Dichlorobenzene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
95-50-1	1,2-Dichlorobenzene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
95-48-7	2-Methylphenol (o-Cresol)	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
106-44-5	4-Methylphenol (p-Cresol)	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ
98-95-3	Nitrobenzene	420.	UJ	430.	UJ	440.	UJ	460.	UJ	430.	UJ	430.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1315 SVOA													
	SAMPLE ID ------->	060-S-0001-01		060-S-0001-07		060-S-0001-14		060-S-0001-27		060-C-0001-27		060-S-0004-01	
	ORIGINAL ID ----->	060S000101		060S000107		060S000114		060S000127		060C000127		060S000401	
	LAB SAMPLE ID --->	116139		116140		116141		116142		116143		116144	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/31/95		01/31/95		01/31/95	
	DATE EXTRACTED -->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE ANALYZED --->	02/16/95		02/15/95		02/15/95		02/15/95		02/15/95		02/16/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
67-72-1	Hexachloroethane	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
78-59-1	Isophorone	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
88-75-5	2-Nitrophenol	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
105-67-9	2,4-Dimethylphenol	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
111-91-1	bis(2-Chloroethoxy)methane	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
120-83-2	2,4-Dichlorophenol	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
120-82-1	1,2,4-Trichlorobenzene	2000.	U	2200.	UJ	420.	UJ	420.	UJ	420.	UJ	380.	U
91-20-3	Naphthalene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
106-47-8	4-Chloroaniline	2000.	UJ	2200.	U	420.	U	420.	U	420.	U	380.	UJ
87-68-3	Hexachlorobutadiene	2000.	U	2200.	UJ	420.	UJ	420.	UJ	420.	UJ	380.	U
59-50-7	4-Chloro-3-methylphenol	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
91-57-6	2-Methylnaphthalene	2000.	U	540.	J	420.	U	420.	U	420.	U	380.	U
77-47-4	Hexachlorocyclopentadiene	2000.	UJ	2200.	UJ	420.	UJ	420.	UJ	420.	UJ	380.	UJ
88-06-2	2,4,6-Trichlorophenol	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
95-95-4	2,4,5-Trichlorophenol	4800.	U	5300.	U	1000.	U	1000.	U	1000.	U	920.	U
91-58-7	2-Chloronaphthalene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
88-74-4	2-Nitroaniline	4800.	U	5300.	U	1000.	U	1000.	U	1000.	U	920.	U
131-11-3	Dimethylphthalate	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
208-96-8	Acenaphthylene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
606-20-2	2,6-Dinitrotoluene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
99-09-2	3-Nitroaniline	4800.	U	5300.	U	1000.	U	1000.	U	1000.	U	920.	U
83-32-9	Acenaphthene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
51-28-5	2,4-Dinitrophenol	4800.	UJ	5300.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	920.	UJ
100-02-7	4-Nitrophenol	4800.	U	5300.	U	1000.	U	1000.	U	1000.	U	920.	U
132-64-9	Dibenzofuran	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
121-14-2	2,4-Dinitrotoluene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
84-66-2	Diethylphthalate	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
7005-72-3	4-Chlorophenylphenylether	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
86-73-7	Fluorene	2000.	U	230.	J	420.	U	420.	U	420.	U	380.	U
100-01-6	4-Nitroaniline	4800.	U	5300.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	920.	U
534-52-1	4,6-Dinitro-2-methylphenol	4800.	U	5300.	U	1000.	U	1000.	U	1000.	U	920.	U
86-30-6	N-Nitrosodiphenylamine	2000.	UJ	2200.	U	420.	U	420.	U	420.	U	380.	UJ
101-55-3	4-Bromophenylphenylether	2000.	U	2200.	UJ	420.	UJ	420.	UJ	420.	UJ	380.	U
118-74-1	Hexachlorobenzene	2000.	U	2200.	UJ	420.	UJ	420.	UJ	420.	UJ	380.	U
87-86-5	Pentachlorophenol	4800.	U	5300.	UJ	1000.	UJ	1000.	UJ	1000.	UJ	920.	U
85-01-8	Phenanthrene	210.	J	430.	J	420.	U	420.	U	420.	U	380.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1315 SVOA													
	SAMPLE ID ------->	060-S-0001-01		060-S-0001-07		060-S-0001-14		060-S-0001-27		060-C-0001-27		060-S-0004-01	
	ORIGINAL ID ----->	060S000101		060S000107		060S000114		060S000127		060C000127		060S000401	
	LAB SAMPLE ID --->	116139		116140		116141		116142		116143		116144	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/31/95		01/31/95		01/31/95	
	DATE EXTRACTED -->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE ANALYZED --->	02/16/95		02/15/95		02/15/95		02/15/95		02/15/95		02/16/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
86-74-8	Carbazole	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
84-74-2	Di-n-butylphthalate	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
206-44-0	Fluoranthene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
129-00-0	Pyrene	2000.	U	250.	J	420.	U	420.	U	420.	U	380.	U
85-68-7	Butylbenzylphthalate	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
91-94-1	3,3'-Dichlorobenzidine	2000.	UJ	2200.	U	420.	U	420.	U	420.	U	380.	UJ
56-55-3	Benzo(a)anthracene	2000.	U	270.	J	420.	U	420.	U	420.	U	380.	U
218-01-9	Chrysene	190.	J	260.	J	420.	U	420.	U	420.	U	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	2000.	UJ	2200.	UJ	160.	J	100.	J	110.	J	380.	UJ
117-84-0	Di-n-octylphthalate	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
205-99-2	Benzo(b)fluoranthene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
207-08-9	Benzo(k)fluoranthene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
50-32-8	Benzo(a)pyrene	210.	J	2200.	U	420.	U	420.	U	420.	U	380.	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
53-70-3	Dibenzo(a,h)anthracene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
191-24-2	Benzo(g,h,i)perylene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
108-95-2	Phenol	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
111-44-4	bis(2-Chloroethyl)ether	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
95-57-8	2-Chlorophenol	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
541-73-1	1,3-Dichlorobenzene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
106-46-7	1,4-Dichlorobenzene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
95-50-1	1,2-Dichlorobenzene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
95-48-7	2-Methylphenol (o-Cresol)	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2000.	U	2200.	UJ	420.	UJ	420.	UJ	420.	UJ	380.	U
106-44-5	4-Methylphenol (p-Cresol)	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U
98-95-3	Nitrobenzene	2000.	U	2200.	U	420.	U	420.	U	420.	U	380.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1315 SVOA									
	SAMPLE ID ------->	060-S-0004-09		060-S-0004-15					
	ORIGINAL ID ----->	060S000409		060S000415					
	LAB SAMPLE ID --->	116145		116146					
	SAMPLE DATE ----->	01/31/95		01/31/95					
	DATE EXTRACTED -->	02/13/95		02/13/95					
	DATE ANALYZED --->	02/16/95		02/16/95					
	MATRIX ---------->	Soil		Soil					
	UNITS ---------->	UG/KG	A	UG/KG	A				
CAS #	Parameter								
621-64-7	N-Nitroso-di-n-propylamine	430.	U	420.	U				
67-72-1	Hexachloroethane	430.	U	420.	U				
78-59-1	Isophorone	430.	U	420.	U				
88-75-5	2-Nitrophenol	430.	U	420.	U				
105-67-9	2,4-Dimethylphenol	430.	U	420.	U				
111-91-1	bis(2-Chloroethoxy)methane	430.	U	420.	U				
120-83-2	2,4-Dichlorophenol	430.	U	420.	U				
120-82-1	1,2,4-Trichlorobenzene	430.	U	420.	U				
91-20-3	Naphthalene	430.	U	420.	U				
106-47-8	4-Chloroaniline	430.	UJ	420.	UJ				
87-68-3	Hexachlorobutadiene	430.	U	420.	U				
59-50-7	4-Chloro-3-methylphenol	430.	U	420.	U				
91-57-6	2-Methylnaphthalene	430.	U	420.	U				
77-47-4	Hexachlorocyclopentadiene	430.	UJ	420.	UJ				
88-06-2	2,4,6-Trichlorophenol	430.	U	420.	U				
95-95-4	2,4,5-Trichlorophenol	1000.	U	1000.	U				
91-58-7	2-Chloronaphthalene	430.	U	420.	U				
88-74-4	2-Nitroaniline	1000.	U	1000.	U				
131-11-3	Dimethylphthalate	430.	U	420.	U				
208-96-8	Acenaphthylene	430.	U	420.	U				
606-20-2	2,6-Dinitrotoluene	430.	U	420.	U				
99-09-2	3-Nitroaniline	1000.	U	1000.	U				
83-32-9	Acenaphthene	430.	U	420.	U				
51-28-5	2,4-Dinitrophenol	1000.	UJ	1000.	UJ				
100-02-7	4-Nitrophenol	1000.	U	1000.	U				
132-64-9	Dibenzofuran	430.	U	420.	U				
121-14-2	2,4-Dinitrotoluene	430.	U	420.	U				
84-66-2	Diethylphthalate	430.	U	420.	U				
7005-72-3	4-Chlorophenylphenylether	430.	U	420.	U				
86-73-7	Fluorene	430.	U	420.	U				
100-01-6	4-Nitroaniline	1000.	U	1000.	U				
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U	1000.	U				
86-30-6	N-Nitrosodiphenylamine	430.	UJ	420.	UJ				
101-55-3	4-Bromophenylphenylether	430.	U	420.	U				
118-74-1	Hexachlorobenzene	430.	U	420.	U				
87-86-5	Pentachlorophenol	1000.	U	1000.	U				
85-01-8	Phenanthrene	430.	U	420.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 SVOA							
	SAMPLE ID ------->	060-S-0004-09		060-S-0004-15			
	ORIGINAL ID ----->	060S000409		060S000415			
	LAB SAMPLE ID --->	116145		116146			
	SAMPLE DATE ----->	01/31/95		01/31/95			
	DATE EXTRACTED -->	02/13/95		02/13/95			
	DATE ANALYZED --->	02/16/95		02/16/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A		
CAS #	Parameter						
120-12-7	Anthracene	430.	U	420.	U		
86-74-8	Carbazole	430.	U	420.	U		
84-74-2	Di-n-butylphthalate	430.	U	420.	U		
206-44-0	Fluoranthene	430.	U	420.	U		
129-00-0	Pyrene	430.	U	420.	U		
85-68-7	Butylbenzylphthalate	430.	U	420.	U		
91-94-1	3,3'-Dichlorobenzidine	430.	UJ	420.	UJ		
56-55-3	Benzo(a)anthracene	430.	U	420.	U		
218-01-9	Chrysene	430.	U	420.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	430.	UJ	420.	UJ		
117-84-0	Di-n-octylphthalate	430.	U	420.	U		
205-99-2	Benzo(b)fluoranthene	430.	U	420.	U		
207-08-9	Benzo(k)fluoranthene	430.	U	420.	U		
50-32-8	Benzo(a)pyrene	430.	U	420.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U	420.	U		
53-70-3	Dibenzo(a,h)anthracene	430.	U	420.	U		
191-24-2	Benzo(g,h,i)perylene	430.	U	420.	U		
108-95-2	Phenol	430.	U	420.	U		
111-44-4	bis(2-Chloroethyl)ether	430.	U	420.	U		
95-57-8	2-Chlorophenol	430.	U	420.	U		
541-73-1	1,3-Dichlorobenzene	430.	U	420.	U		
106-46-7	1,4-Dichlorobenzene	430.	U	420.	U		
95-50-1	1,2-Dichlorobenzene	430.	U	420.	U		
95-48-7	2-Methylphenol (o-Cresol)	430.	U	420.	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	430.	U	420.	U		
106-44-5	4-Methylphenol (p-Cresol)	430.	U	420.	U		
98-95-3	Nitrobenzene	430.	U	420.	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 TPH							
	SAMPLE ID ------->	005-S-0006-07	005-S-0006-12	005-S-0007-01	005-S-0007-10	005-S-0007-12	005-C-0007-12
	ORIGINAL ID ----->	005S000607	005S000612	005S000701	005S000710	005S000712	005C000712
	LAB SAMPLE ID --->	116003	116004	116005	116006	116007	116008
	SAMPLE DATE ----->	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95	01/29/95
	DATE EXTRACTED -->	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95
	DATE ANALYZED --->	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	87. U	89. U	85. U	93. U	87. U	87. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 TPH							
	SAMPLE ID ------->	060-S-0001-01	060-S-0001-07	060-S-0001-14	060-S-0001-27	060-C-0001-27	060-S-0004-01
	ORIGINAL ID ----->	060S000101	060S000107	060S000114	060S000127	060C000127	060S000401
	LAB SAMPLE ID --->	116129	116130	116131	116132	116133	116134
	SAMPLE DATE ----->	01/31/95	01/31/95	01/31/95	01/31/95	01/31/95	01/31/95
	DATE EXTRACTED -->	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95
	DATE ANALYZED --->	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95	02/25/95
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	4700.	64000.	84. U	85. U	83. U	81. U

*** Validation Complete ***

FD1315 TPH							
	SAMPLE ID ------->	060-S-0004-09	060-S-0004-15				
	ORIGINAL ID ----->	060S000409	060S000415				
	LAB SAMPLE ID --->	116135	116136				
	SAMPLE DATE ----->	01/31/95	01/31/95				
	DATE EXTRACTED -->	02/25/95	02/25/95				
	DATE ANALYZED --->	02/25/95	02/25/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	mg/Kg A	mg/Kg A				
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	84. U	85. U				

*** Validation Complete ***

FD1315 VOA													
	SAMPLE ID ------->	005-S-0006-07		005-S-0006-12		005-S-0007-01		005-S-0007-10		005-S-0007-12		005-C-0007-12	
	ORIGINAL ID ----->	005S000607		005S000612		005S000701		005S000710		005S000712		005C000712	
	LAB SAMPLE ID --->	116015		116016		116017		116018		116019		116020	
	SAMPLE DATE ----->	01/29/95		01/29/95		01/29/95		01/29/95		01/29/95		01/29/95	
	DATE ANALYZED --->	02/02/95		02/02/95		02/02/95		02/02/95		02/02/95		02/02/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
74-83-9	Bromomethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
75-01-4	Vinyl chloride	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
75-00-3	Chloroethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
75-09-2	Methylene chloride	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
67-64-1	Acetone	13.	UJ	13.	UJ	13.	UJ	14.	UJ	13.	UJ	13.	UJ
75-15-0	Carbon disulfide	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
75-35-4	1,1-Dichloroethene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
75-34-3	1,1-Dichloroethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
67-66-3	Chloroform	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
107-06-2	1,2-Dichloroethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
78-93-3	2-Butanone (MEK)	13.	UJ	13.	UJ	13.	UJ	14.	UJ	13.	UJ	13.	UJ
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
56-23-5	Carbon tetrachloride	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
75-27-4	Bromodichloromethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
78-87-5	1,2-Dichloropropane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
79-01-6	Trichloroethene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
124-48-1	Dibromochloromethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
71-43-2	Benzene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
75-25-2	Bromoform	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
591-78-6	2-Hexanone	13.	UJ	13.	UJ	13.	UJ	14.	UJ	13.	UJ	13.	UJ
127-18-4	Tetrachloroethene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
108-88-3	Toluene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
108-90-7	Chlorobenzene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
100-41-4	Ethylbenzene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
100-42-5	Styrene	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U
1330-20-7	Xylene (Total)	13.	U	13.	U	13.	U	14.	U	13.	U	13.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1315 VOA													
	SAMPLE ID ------->	060-S-0001-01		060-S-0001-07		060-S-0001-14		060-S-0001-27		060-C-0001-27		060-S-0004-01	
	ORIGINAL ID ----->	060S000101		060S000107		060S000114		060S000127		060C000127		060S000401	
	LAB SAMPLE ID --->	116139		116140		115141		116142		116143		116144	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/31/95		01/31/95		01/31/95	
	DATE ANALYZED --->	02/06/95		02/08/95		02/06/95		02/06/95		02/06/95		02/06/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
74-83-9	Bromomethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
75-01-4	Vinyl chloride	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
75-00-3	Chloroethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
75-09-2	Methylene chloride	3.	J	190.	J	3.	J	12.	UJ	1.	J	3.	J
67-64-1	Acetone	17.	UJ	1500.	U	34.	UJ	24.	UJ	19.	UJ	12.	UJ
75-15-0	Carbon disulfide	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
75-35-4	1,1-Dichloroethene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
75-34-3	1,1-Dichloroethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
67-66-3	Chloroform	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
107-06-2	1,2-Dichloroethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
78-93-3	2-Butanone (MEK)	12.	UJ	1500.	U	13.	UJ	12.	UJ	12.	UJ	12.	UJ
71-55-6	1,1,1-Trichloroethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
56-23-5	Carbon tetrachloride	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
75-27-4	Bromodichloromethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
78-87-5	1,2-Dichloropropane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
79-01-6	Trichloroethene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
124-48-1	Dibromochloromethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
71-43-2	Benzene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
75-25-2	Bromoform	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
591-78-6	2-Hexanone	12.	UJ	1500.	U	13.	UJ	12.	UJ	12.	UJ	12.	UJ
127-18-4	Tetrachloroethene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
108-88-3	Toluene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
108-90-7	Chlorobenzene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
100-41-4	Ethylbenzene	12.	U	250.	J	13.	U	12.	U	12.	U	12.	U
100-42-5	Styrene	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U
1330-20-7	Xylene (Total)	12.	U	1500.	U	13.	U	12.	U	12.	U	12.	U

*** Validation Complete ***

FD1315 VOA													
	SAMPLE ID ------->	060-S-0004-09		060-S-0004-15									
	ORIGINAL ID ----->	060S000409		060S000415									
	LAB SAMPLE ID --->	116145		116146									
	SAMPLE DATE ----->	01/31/95		01/31/95									
	DATE ANALYZED --->	02/06/95		02/06/95									
	MATRIX ---------->	Soil		Soil									
	UNITS ---------->	UG/KG	A	UG/KG	A								
CAS #	Parameter												
74-87-3	Chloromethane	13.	U	13.	U								
74-83-9	Bromomethane	13.	U	13.	U								
75-01-4	Vinyl chloride	13.	U	13.	U								
75-00-3	Chloroethane	13.	U	13.	U								
75-09-2	Methylene chloride	13.	U	1.	J								
67-64-1	Acetone	13.	UJ	18.	UJ								
75-15-0	Carbon disulfide	13.	U	13.	U								
75-35-4	1,1-Dichloroethene	13.	U	13.	U								
75-34-3	1,1-Dichloroethane	13.	U	13.	U								
540-59-0	1,2-Dichloroethene (total)	13.	U	13.	U								
67-66-3	Chloroform	13.	U	13.	U								
107-06-2	1,2-Dichloroethane	13.	U	13.	U								
78-93-3	2-Butanone (MEK)	13.	UJ	13.	UJ								
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U								
56-23-5	Carbon tetrachloride	13.	U	13.	U								
75-27-4	Bromodichloromethane	13.	U	13.	U								
78-87-5	1,2-Dichloropropane	13.	U	13.	U								
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U								
79-01-6	Trichloroethene	13.	U	13.	U								
124-48-1	Dibromochloromethane	13.	U	13.	U								
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U								
71-43-2	Benzene	13.	U	13.	U								
10061-02-6	trans-1,3-Dichloropropene	13.	U	13.	U								
75-25-2	Bromoform	13.	U	13.	U								
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	U								
591-78-6	2-Hexanone	13.	UJ	13.	UJ								
127-18-4	Tetrachloroethene	13.	U	13.	U								
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	U								
108-88-3	Toluene	13.	U	13.	U								
108-90-7	Chlorobenzene	13.	U	13.	U								
100-41-4	Ethylbenzene	13.	U	13.	U								
100-42-5	Styrene	13.	U	13.	U								
1330-20-7	Xylene (Total)	13.	U	13.	U								

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00336 and 95.00337 (Level III Validation)
Case Nº:	FD1318

Sample Identification	Matrix
008F020195	Water
008P020195	Water
008S000101	Soil
008S000112	Soil
008S000119	Soil
008S000201	Soil
008S000214	Soil
008C000214	Soil
008S000220	Soil
008S000301	Soil
008S000312	Soil
008S000322	Soil
008S000401	Soil
008S000410	Soil
008S000424	Soil
060S000201	Soil
060S000210	Soil
060S000214	Soil
060S000301	Soil
008S000101S	Soil
008S000101D	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 19 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form 10), inter-element corrections (Form 11 A & B) and linear range analysis (Form 12) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field or Trip Blank	Action Level (5x high. blk.)		Associated Samples
				(mg/kg)	(µg/L)		(mg/kg)	(µg/L)	
Arsenic	2.0		-2.5				2.5	12.5	All
Barium	2.0		-			35.1	35.1	175.5	All
Copper	5.0					5.5	5.5	27.5	All
Silver	3.0	4.3	5.2	3.9	19.5	5.2	19.5	97.5	All
Thallium	2.0		-2.4				2.4	12.0	All
Tin	15.0	80.5	71.2	5.1	32.7	64.8	80.5	402.5	All
Zinc						22.3	22.3	111.5	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
008S101	Silver Tin	1.1B 14.1B	1.1U 14.1U
008S112	Silver Tin	0.89B 15.3B	0.89U 15.3U
008S119	Silver Tin	0.91B 5.3B	0.91U 5.3U
008S201	Silver Tin	0.87B 10.8B	0.87U 10.8U
008S214	Silver Tin	1.4B 8.4B	1.4U 8.4U
008C214	Silver Tin	1.2B 10.9B	1.2U 10.9U

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
008S220	Silver Tin	1.0B 7.3B	1.0U 7.3U
008S301	Silver Tin	2.1B 13.9B	2.1U 13.9U
008S312	Tin	8.9B	8.9U
008S322	Silver Tin	1.1B 13.1B	1.1U 13.1U
008S401	Silver Tin	1.6B 19.0B	1.6U 19.0U
008S410	Silver Tin	1.7B 19.5B	1.7U 19.5U
008S424	Silver Tin	1.0B 12.4B	1.0U 12.4U
060S201	Tin	16.0B	16.0U
060S210	Silver Tin	1.3B 15.7B	1.3U 15.7U
060S214	Silver Tin	1.4B 13.7B	1.4U 13.7U
060S301	Silver Tin	1.7B 9.9B	1.7U 9.9U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	MS %R	Associated Samples	Flag
Antimony	59.1	All	J(detect)/UJ(non-detect)
Lead	22.0	All	J(detect)/R(non-detect)
Silver	72.6	All	J(detect)/UJ(non-detect)

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within ±20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
008S312	Arsenic	82.8	85-115%	None (MSA passed)
060S210		67.5	85-115%	None (MSA passed)
008S112	Selenium	84.5	85-115%	J(detect)/UJ(non-detect)
008S201		81.5	85-115%	J(detect)/UJ(non-detect)
008S214		77.0	85-115%	J(detect)/UJ(non-detect)
008C214		83.0	85-115%	J(detect)/UJ(non-detect)
008S312		84.5	85-115%	J(detect)/UJ(non-detect)
060S201		81.0	85-115%	J(detect)/UJ(non-detect)
008S201	Lead	76.8	85-115%	None (MSA passed)
008S214		118.2	85-115%	None (MSA passed)
060S210		81.2	85-115%	None (MSA passed)
060S214		79.2	85-115%	None (MSA passed)
060S301		69.2	85-115%	None (MSA passed)

MSA was performed and the correlation coefficients were within QC limit of >0.995.

MSA was required for the following but were not performed:

Sample	Element	Flag
008S112	Selenium	J(detect)/UJ(non-detect)
008S214		J(detect)/UJ(non-detect)
008C214		J(detect)/UJ(non-detect)
008S312		J(detect)/UJ(non-detect)
060S201		J(detect)/UJ(non-detect)

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

No raw data were reviewed.

XI. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1318

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	008S101	Silver	1.1U	Blank contamination
		Tin	14.1U	
	008S112	Silver	0.89U	
		Tin	15.3U	
	008S119	Silver	0.91U	
		Tin	5.3U	
	008S201	Silver	0.87U	
		Tin	10.8U	
	008S214	Silver	1.4U	
		Tin	8.4U	
	008C214	Silver	1.2U	
		Tin	10.9U	
	008S220	Silver	1.0U	
		Tin	7.3U	
	008S301	Silver	2.1U	
		Tin	13.9U	
	008S312	Tin	8.9U	
	008S322	Silver	1.1U	
		Tin	13.1U	
	008S401	Silver	1.6U	
		Tin	19.0U	
	008S410	Silver	1.7U	
		Tin	19.5U	
	008S424	Silver	1.0U	
		Tin	12.4U	
	060S201	Tin	16.0U	
	060S210	Silver	1.3U	
		Tin	15.7U	
	060S214	Silver	1.4U	
		Tin	13.7U	
	060S301	Silver	1.7U	
		Tin	9.9U	
FD1318	All	Antimony	J(detect)/UJ(non-detect)	Matrix spike %R
		Lead	J(detect)/R(non-detect)	
		Silver	J(detect)/UJ(non-detect)	
FD1318	008S112	Selenium	J(detect)/UJ(non-detect)	MSA not performed
	008S201		J(detect)/UJ(non-detect)	
	008S214		J(detect)/UJ(non-detect)	
	008C214		J(detect)/UJ(non-detect)	
	008S312		J(detect)/UJ(non-detect)	
	060S201		J(detect)/UJ(non-detect)	

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00336, and 95.00337 (Level III Validation)
Case Nº:	FD1318

Sample Identification	Matrix
008S000101	SOIL
008S000112	SOIL
008S000119	SOIL
008S000201	SOIL
008S000214	SOIL
008C000214	SOIL
008S000220	SOIL
008S000301	SOIL
008S000312	SOIL
008S000322	SOIL
008S000401	SOIL
008S000410	SOIL
008S000424	SOIL
060S000201	SOIL
060S000210	SOIL
060S000214	SOIL
060S000301	SOIL
008F020195	WATER
008P020195	WATER
008T020195	WATER

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INTRODUCTION

This data review report covers 17 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/01/95 12:21	HP5970L	Methylene Chloride	32.3 (±30.0)	008S000112 008S000119 008S000201 008S000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 060S000201	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/07/95 13:28	HP5970H	Carbon Tetrachloride	29.1 (±25.0)	060S000210 060S000214 060S000310	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/08/95 11:50	HP5970H	1,2-Dichloropropane cis-1,3-Dichloropropene	-30.1 (±25.0) -28.2 (±25.0)	008C000214 008C000214	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/07/95 8:25	HP5970L	Chloromethane	28.1 (±25.0)	008S000112	J(detect)/UJ(non-detect)
		Vinyl Chloride	28.9 (±25.0)	008S000119	J(detect)/UJ(non-detect)
		Carbon Disulfide	27.0 (±25.0)	008S000201	J(detect)/UJ(non-detect)
		2-Butanone	26.7 (±25.0)	008S000214	J(detect)/UJ(non-detect)
		Acetone	45.9 (±25.0)	008S000220	J(detect)/UJ(non-detect)
				008S000301	J(detect)/UJ(non-detect)
				008S000312	J(detect)/UJ(non-detect)
				008S000322	J(detect)/UJ(non-detect)
				008S000401	J(detect)/UJ(non-detect)
				008S000410	J(detect)/UJ(non-detect)
				008S000424	J(detect)/UJ(non-detect)
				060S000201	J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blanks that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Associated Samples	Reported Conc.	Modified Conc.
02/07/95	VBLK020795L	Methyl Chloride	2J	20	008S000112	5BJ	13U
					008S000119	2BJ	12U
					008S000201	3BJ	13U
					008S000214	2BJ	13U
					008S000220	2BJ	13U
					008S000301	13U	None
					008S000312	1BJ	12U
					008S000322	1BJ	12U
					008S000401	12U	None
					008S000410	12U	None
					008S000424	12U	None
					008S000201	2BJ	12U

The field blank analyses were performed at required frequencies. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (µg/kg)		RPD	QC Limit	Flag
	008S000214	008C000214			
Acetone	27	110	121%	≤50%	J(detect)

XVI. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1318

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	008S000112 008S000119 008S000201 008S000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 060S000201	Methylene Chloride	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1318	060S000210 060S000214 060S000301	Carbon Tetrachloride	J(detect)/UJ(non-detect)	Continuing calibration %RSD
FD1318	008C000214 008C000214	1,2-Dichloropropane Cis-1,3-Dichloropropene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %RSD
FD1318	008S000112 008S000119 008S000201 008S000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 060S000201	Chloromethane Vinyl Chloride Carbon Disulfide 2-Butanone Acetone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %RSD
FD1318	008S000112 008S000119 008S000201 008S000214 008S000220 008S000312 008S000322 060S000201	Methylene Chloride	13U 12U 13U 13U 13U 12U 12U 12U	Method blank contamination
FD1318	008S000214 008C000214	Acetone	J(detect)/UJ(non-detect)	Field duplicate RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00336 and 95.00337 (Level III Validation)
Case Nº:	FD1318

Sample Identification	Matrix
008C000214	Soil
008F020195	Water
008P020195	Water
008S000101	Soil
008S000112	Soil
008S000119	Soil
008S000201	Soil
008S000214	Soil
008S000220	Soil
008S000301	Soil
008S000312	Soil
008S000322	Soil
008S000401	Soil
008S000410	Soil
008S000424	Soil
008S000201	Soil
008S000210	Soil
008S000214	Soil
008S000301	Soil
008S000101MS	Soil
008S000101MD	Soil

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INTRODUCTION

This data review report covers 19 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Extraction Holding Time/ QC Limit	Flag
008S000112	Soil	17(14)	J(detect)/UJ(non-detect)

Sample 008S000112 was extracted out of technical holding time.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/08/95 10:28	HP5970J	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N,Nitrosodiphenylamine Bis(2-ethylhexyl)phthalate	38.8(≤30) 30.2(≤30) 40.3(≤30) 32.5(≤30) 31.5(≤30)	008S000101 008S000112 008S000119 008S000201 008S000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 008C000214	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/21/95 09:13	HP5970F	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	43.7(≤30) 30.6(≤30)	060S000201 060S000210 060S000214 060S000301	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/21/95 14:00	HP5970F	2,4-Dinitrophenol	26.6(25)	060S000210 060S000214 060S000301 060S000201	J(detect)/UJ(non-detect)
02/16/95 09:50	HP5970J	3,3'-Dichlorobenzidine	27.6(25)	008S000101 008S000119	J(detect)/UJ(non-detect)
02/21/95 13:55	HP5970J	Phenol 2,2'-Oxybis(1-chloropropane) Hexachlorocyclopentadiene 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-methylphenol 2,4,6-Tribromophenol	-25.2(25) -46.0(25) -53.6(25) -53.6(25) 27.9(25) -41.1(25) -27.3(25)	008S000112 008S000201 008S000214 008C000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blanks that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10x (µg/kg)	Samples Affected	Reported Conc. (µg/kg)	Modified Conc. (µg/kg)
02/16/95	SBLK021395J	Di-n-butylphthalate	470	4700	008S000101	430U	None
		Bis(2-ethylhexyl)phthalate	38J	380		220BJ	430U
		Di-n-butylphthalate			008S000119	410U	None
		Bis(2-ethylhexyl)phthalate				160BJ	410U
02/21/95	SBLK021595F	Di-n-butylphthalate	480	4800	060S000201	470U	None
		Bis(2-ethylhexyl)phthalate	34J	340		140BJ	470U
		Di-n-butylphthalate			060S000210	430U	None
		Bis(2-ethylhexyl)phthalate				74BJ	430U
		Di-n-butylphthalate			060S000214	420U	None
		Bis(2-ethylhexyl)phthalate				75BJ	420U
		Di-n-butylphthalate			060S000301	400U	None
		Bis(2-ethylhexyl)phthalate				44BJ	400U
02/21/95	SBLK021595J	Di-n-butylphthalate	560	5600	008C000214	340U	None
		Bis(2-ethylhexyl)phthalate	51J	510		150BJ	340U
		Di-n-butylphthalate			008S000201	470U	None
		Bis(2-ethylhexyl)phthalate				180BJ	470U
		Di-n-butylphthalate			008S000214	350U	None
		Bis(2-ethylhexyl)phthalate				120BJ	350U
		Di-n-butylphthalate			008S000220	350U	None
		Bis(2-ethylhexyl)phthalate				93BJ	350U
		Di-n-butylphthalate			008S000301	430U	None
		Bis(2-ethylhexyl)phthalate				160BJ	430U
		Di-n-butylphthalate			008S000312	340U	None
		Bis(2-ethylhexyl)phthalate				120BJ	340U
		Di-n-butylphthalate			008S000322	490U	None
		Bis(2-ethylhexyl)phthalate				190BJ	490U
		Di-n-butylphthalate			008S000401	330U	None
		Bis(2-ethylhexyl)phthalate				120BJ	330U
		Di-n-butylphthalate			008S000410	400U	None
		Bis(2-ethylhexyl)phthalate				110BJ	400U
		Di-n-butylphthalate			008S000424	420U	None
		Bis(2-ethylhexyl)phthalate				120BJ	420U

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10x (µg/kg)	Samples Affected	Reported Conc. (µg/kg)	Modified Conc. (µg/kg)
02/21/95	SBLK021795J	Di-n-butylphthalate	630	6300	008S000112	420U	None

The field blank analyses were performed at required frequencies. No contaminant was found in the field blanks.

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846.

All surrogate spike recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples. All detected analytes were within QC limit.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1318

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	008S000112	All Compound	J(detect)/UJ(detect)	Holding time violation
FD1318	008S000101	4-Chloroaniline	J(detect)/UJ(detect)	Initial calibration %RSD
	008S000112	Hexachlorocyclopentadiene	J(detect)/UJ(detect)	
	008S000119	2,4-Dinitrophenol	J(detect)/UJ(detect)	
	008S000201	N,Nitrosodiphenylamine	J(detect)/UJ(detect)	
	008S000214	Bis(2-Ethylhexyl)phthalate	J(detect)/UJ(detect)	
	008S000220			
	008S000301			
	008S000312			
	008S000322			
	008S000401			
	008S000410			
	008S000424			
	008C000214			
FD1318	060S000201	Hexachlorocyclopentadiene	J(detect)/UJ(detect)	Initial calibration %RSD
	060S000210	1,2-Dichlorobenzene-d4	J(detect)/UJ(detect)	
	060S000214			
	060S000301			
FD1318	060S000210	2,4-Dinitrophenol	J(detect)/UJ(detect)	Continuing calibration %D
	060S000214	2,4-Dinitrophenol	J(detect)/UJ(detect)	
	060S000301			
	060S000201			
FD1318	008S000101	3,3'-Dichlorobenzidine	J(detect)/UJ(detect)	Continuing calibration %D
	008S000119	3,3'-Dichlorobenzidine	J(detect)/UJ(detect)	
FD1318	008S000112	Phenol		Continuing calibration %D
	008S000201	2,2'-Oxybis(1-chloropropane)	J(detect)/UJ(detect)	
	008S000214	Hexachlorocyclopentadiene	J(detect)/UJ(detect)	
	008C000214	2,4-Dinitrophenol	J(detect)/UJ(detect)	
	008S000220	4-Nitrophenol	J(detect)/UJ(detect)	
	008S000301	4,6-Dinitro-2-methylphenol	J(detect)/UJ(detect)	
	008S000312	2,4,6-Tribromophenol	J(detect)/UJ(detect)	
	008S000322			
	008S000401			
	008S000410			
	008S000424			
FD1318	008S000101	Bis(2-Ethylhexyl)phthalate	430U	Blank contamination
	008S000119	Bis(2-Ethylhexyl)phthalate	410U	
	060S000201	Bis(2-Ethylhexyl)phthalate	470U	
	060S000210	Bis(2-Ethylhexyl)phthalate	430U	
	060S000214	Bis(2-Ethylhexyl)phthalate	420U	
	060S000301	Bis(2-Ethylhexyl)phthalate	400U	
	008C000214	Bis(2-Ethylhexyl)phthalate	340U	
	008S000201	Bis(2-Ethylhexyl)phthalate	470U	
	008S000214	Bis(2-Ethylhexyl)phthalate	350U	
	008S000220	Bis(2-Ethylhexyl)phthalate	350U	
	008S000301	Bis(2-Ethylhexyl)phthalate	430U	
	008S000312	Bis(2-Ethylhexyl)phthalate	340U	
	008S000322	Bis(2-Ethylhexyl)phthalate	490U	
	008S000401	Bis(2-Ethylhexyl)phthalate	330U	
	008S000410	Bis(2-Ethylhexyl)phthalate	400U	
	008S000424	Bis(2-Ethylhexyl)phthalate	420U	

C K Y incorporated
Analytical Laboratories

DATA VALIDATION REPORT

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job №:	95.00336 and 95.00337 (Level III Validation)
Case №:	FD1318

Sample Identification	Matrix
008F020195	Water
008P020195	Water
008C000214	Soil
008S000101	Soil
008S000112	Soil
008S000119	Soil
008S000201	Soil
008S000214	Soil
008S000220	Soil
008S000301	Soil
008S000301DL	Soil
008S000312	Soil
008S000322	Soil
008S000401	Soil
008S000410	Soil
008S000424	Soil
060S000201	Soil
060S000210	Soil
060S000214	Soil
060S000301	Soil

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INTRODUCTION

This data review report covers 18 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSD for calibration factors of single component analytes were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds were within QC limit except for the following:

Date/ Time	Standard	Compound	%D XTI5 Column	%D RTX35 Column	QC Limit	Associated Samples	Flag
02/24/95 01:18	INDBM03	beta-BHC	-23.39	-16.16	±15.0%	008S000101	J(detect)/UJ(non-detect)
		delta-BHC	-22.46		±15.0%	008S000112	None (confirmation only)
		4,4'-DDE		-22.43	±15.0%	008S000119	J(detect)/UJ(non-detect)
		Endosulfan II		-18.02	±15.0%	008S000201	None (confirmation only)
						008S000214	
						008C000214	
						008S000220	
						008S000301	
						008S000312	
						008S000322	
						008S000401	
						008S000410	
						008S000424	
						060S000210	
02/24/95 11:34	INDAM04	4,4'-DDD	-21.52		±15.0%	008S000301	J(detect)/UJ(non-detect)
		4,4'-DDT	-16.27	-19.51	±15.0%	008S000312	J(detect)/UJ(non-detect)
		Methoxychlor	-17.41	-24.77	±15.0%	008S000322	J(detect)/UJ(non-detect)
						008S000401	
						008S000410	
						008S000424	
						060S000210	
02/24/95 12:16	INDBM04	beta-BHC	-22.26	-16.11	±15.0%	008S000301	J(detect)/UJ(non-detect)
		delta-BHC	-20.19		±15.0%	008S000312	None (confirmation only)
		4,4'-DDE	-15.86	-20.19	±15.0%	008S000322	J(detect)/UJ(non-detect)
		Endosulfan II	-16.03	-20.43	±15.0%	008S000401	J(detect)/UJ(non-detect)
						008S000410	
						008S000424	
						060S000210	
02/26/95 17:54	INDBM03	Endrin aldehyde	-15.05	-17.19	±15.0%	060S000214	J(detect)/UJ(non-detect)
						060S000301	
02/27/95 01:51	INDBM04	Endrin aldehyde	-17.15	-17.42	±15.0%	008S000301DL	J(detect)/UJ(non-detect)
		Endosulfate		-15.81	±15.0%	060S000201	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination. RT windows were all within QC limit.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One sets of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
008S000101	RTX35	Dieldrin	0.00 (30-140%)	9.00 (30-140%)	200 (30%)	J(detect)/R(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Not required by SW846.

IX. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were properly identified except for the following compounds which were found to be misidentified and the appropriate actions were recommended:

Sample	Compound	Column	RT (Window)	%D (QC Limit)	Flag
008S000101	Dieldrin	XTI5 RTX35	16.34 (16.40-16.54) 19.91 (19.95-20.09)		J(detect)/UJ(non-detect)
008S000201	Dieldrin	XTI5 RTX35	16.34 (16.40-16.54) 19.91 (19.95-20.09)		J(detect)/UJ(non-detect)
008S000301	Dieldrin	XTI5 RTX35	16.31 (16.40-16.54) 19.91 (19.95-20.09)	41.4 (≤25%)	J(detect)/UJ(non-detect)
008S000401	Dieldrin	XTI5 RTX35	16.30 (16.40-16.54) 19.88 (19.95-20.09)		J(detect)/UJ(non-detect)
060S000201	4,4'-DDT	XTI5 RTX35		45.5 (≤25%)	J(detect)/UJ(non-detect)

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

REMARK: Case narrative stated that for sequences 941215 and 950116, the primary column was the front columns(XII-5). For other sequence, the primary column was the Rear column (RTX-35) except for Endrin Aldehyde, 4,4'-DDT, Endosulfan II, and 4,4'-DDD. The Front column (XTI-5) was used. However, for the PEST0215SN, 008S000101MS and 008S000101MSD, all results were reported from the rear column including those four compounds. Besides, sample PEST0203A from sequence 941215 was supposed to have results reported from the Front column, but the results were reported from the Rear column instead. Sample PEST0214SN was supposed to have results reported from the Rear column, but the results were reported from the Front instead except the above four compounds. Results in the four compounds were reported from the Rear columns. Thus, the Case Narrative contradict what was actually reported for these samples. For sample 008S000301DL, Dieldrin result was suppose to be reported from the Rear column which was 491 ug/kg, but it was reported from Front column which was 471 ug/kg, which contradicted the Case Narrative. For sample 060S000201, all detected results were chosen from the lower results of the two columns, and not from the rear as stated in the Narrative.

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1318

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	008S000101 008S000112 008S000119 008S000201 008S000214 008C000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 060S000210	beta-BHC 4,4'-DDE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 060S000210	4,4'-DDD 4,4'-DDT Methoxychlor beta-BHC 4,4'-DDE Endosulfan II	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	060S000214 060S000301	Endrin aldehyde	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000301DL 060S000201	Endrin aldehyde Endosulfate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000101	Dieldrin	J(detect)/R(non-detect)	Matrix spike/matrix spike duplicate %R
FD1318	008S000101	Dieldrin	J(detect)/UJ(non-detect)	Compound identification RT
FD1318	008S000201	Dieldrin	J(detect)/UJ(non-detect)	Compound identification RT
FD1318	008S000301	Dieldrin	J(detect)/UJ(non-detect)	Compound identification %D
FD1318	008S000401	Dieldrin	J(detect)/UJ(non-detect)	Compound identification RT
FD1318	060S000201	4,4'-DDT	J(detect)/UJ(non-detect)	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.0036 and 95.0037 (Level III Validation)
Case Nº:	FD1318

Sample Identification	Matrix
008C000214	Soil
008F020195	Water
008P020195	Water
008S000101	Soil
008S000112	Soil
008S000119	Soil
008S000201	Soil
008S000214	Soil
008S000220	Soil
008S000301	Soil
008S000312	Soil
008S000322	Soil
008S000401	Soil
008S000410	Soil
008S000424	Soil
060S000201	Soil
060S000210	Soil
060S000214	Soil
060S000301	Soil
008S000101MS	Soil
008S000101MD	Soil

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INTRODUCTION

This data review report covers 19 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/22/95 20:40	RF250	Mevinphos alpha	22.7	≤20%	All	J(detect)/UJ(non-detect)
	RF500	Fensulfothion	31.4	≤20%		J(detect)/UJ(non-detect)
	RF1000	Guthion	70.3	≤20%		J(detect)/UJ(non-detect)
	RF2000	Coumaphos	36.1	≤20%		J(detect)/UJ(non-detect)
	RF4000					

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D RTX35 Column	%D RTX5 Column	QC Limit	Associated Samples	Flag
02/25/95 20:53	RF1000	Demeton, o	-36.5		≤15%	008S000101	J(detect)/UJ(non-detect)
		Naled	16.2		≤15%		J(detect)/UJ(non-detect)
		Methyl parathion	-15.7		≤15%		J(detect)/UJ(non-detect)
		Chlorpyrifos	-17.0		≤15%		J(detect)/UJ(non-detect)
		Fensulfothion	-31.9		≤15%		J(detect)/UJ(non-detect)
		Guthion	-155.2		≤15%		J(detect)/UJ(non-detect)
		Coumaphos	-71.9		≤15%		J(detect)/UJ(non-detect)
		Merphos		-52.3	≤15%		J(detect)/UJ(non-detect)
02/26/95 12:46	RF1000	Dichlorvos	15.6		≤15%	008S000101	J(detect)/UJ(non-detect)
		Demeton, o	-20.0		≤15%	008S000112	J(detect)/UJ(non-detect)
		Guthion	-85.2		≤15%	008S000119	J(detect)/UJ(non-detect)
		Coumaphos	-57.4		≤15%	008S000201	J(detect)/UJ(non-detect)
		Merphos		-54.1	≤15%	008S000214	J(detect)/UJ(non-detect)
02/26/95 20:42	RF1000	Dichlorvos	21.9		≤15%	008S000112	J(detect)/UJ(non-detect)
		Mevinphos, alpha	16.2		≤15%	008S000119	J(detect)/UJ(non-detect)
		Naled	20.2		≤15%	008S000201	J(detect)/UJ(non-detect)
		Fensulfothion	-17.5		≤15%	008S000214	J(detect)/UJ(non-detect)
		Stirophos	31.7		≤15%	008C000214	J(detect)/UJ(non-detect)
		Guthion	-66.1		≤15%	008S000220	J(detect)/UJ(non-detect)
		Coumaphos	-69.1		≤15%	008S000301	J(detect)/UJ(non-detect)
		Merphos		-46.9	≤15%	008S000312	J(detect)/UJ(non-detect)
						008S000322	
						008S000401	
						008S000410	
						008S000424	
						060S000201	
						060S000210	
						060S000214	

Date/ Time	Standard	Compound	%D RTX35 Column	%D RTX5 Column	QC Limit	Associated Samples	Flag
02/27/95 13:54	RF1000	Dichlorvos	25.0		≤15%	008C000214	J(detect)/UJ(non-detect)
		Mevinphos, alpha	18.4		≤15%	008S000220	J(detect)/UJ(non-detect)
		Demeton, o	-22.8		≤15%	008S000301	J(detect)/UJ(non-detect)
		Fensulfothion	-26.6		≤15%	008S000312	J(detect)/UJ(non-detect)
		Stirophos	33.3		≤15%	008S000322	J(detect)/UJ(non-detect)
		Guthion	-43.7		≤15%	008S000401	J(detect)/UJ(non-detect)
		Coumaphos	-34.2		≤15%	008S000410	J(detect)/UJ(non-detect)
		Merphos		-69.7	≤15%	008S000424	J(detect)/UJ(non-detect)
						060S000201	
						060S000210	
						060S000214	
						060S000301	
02/27/95 22:11	RF1000	Dichlorvos	22.9		≤15%	060S000301	J(detect)/UJ(non-detect)
		Mevinphos, alpha	18.5		≤15%		J(detect)/UJ(non-detect)
		Stirophos	31.4		≤15%		J(detect)/UJ(non-detect)
		Guthion	-27.0		≤15%		J(detect)/UJ(non-detect)
		Coumaphos	-49.2		≤15%		J(detect)/UJ(non-detect)
		Merphos		-42.2	≤15%		J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
008S000101	RTX35	Guthion	166 (50-150%)	176 (50-150%)		J(detect)/None(non-detect)
008S000101	RTX5	Merphos	15 (50-150%)	39 (50-150%)	88 (≤25%)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
02/27/95	NLCS10214S	RTX35 RTX5	Stirophos Merphos	42 (50-150%) 0.00 (50-150%)	0.0 (32.67-32.78)	060S000301	J(detect)/UJ(non-detect) J(detect)/R(non-detect)
02/26/95	OPLCS01211S	RTX35 RTX5	Guthion , Merphos	177.8 (50-150%) 0.0 (50-150%)	0.0 (32.67-32.87)	00BS000101 00BS000112 00BS000119 00BS000201 00BS000214	J(detect)/None(non-detect) J(detect)/R(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XI. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1318

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	All	Mevinphos, alpha Fensulfothion Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1318	008S000101	Demeton, o Naled Methyl parathion Chloropyrifos Fensulfothion Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000101 008S000112 008S000119 008S000201 008S000214	Dichlorvos Demeton, o Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000112 008S000119 008S000201 008S000214 008C000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 060S000201 060S000210 060S000214	Dichlorvos Mevinphos, alpha Naled Fensulfothion Stirophos Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008C000214 008S000220 008S000301 008S000312 008S000322 008S000401 008S000410 008S000424 060S000201 060S000210 060S000214 060S000301	Dichlorvos Mevinphos, alpha Demeton, o Fensulfothion Stirophos Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	060S000301	Dichlorvos Mevinphos, alpha Stirophos Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000101	Guthion Merphos	J(detect)/None(non-detect) J(detect)/UJ(non-detect)	Matrix spike/matrix spike duplicate %R
FD1318	060S000301	Stirophos Merphos	J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R
FD1318	008S000101 008S000112 008S000119 008S000201 008S000214	Guthion Merphos	J(detect)/None(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00336 & 95.0037 (Level III Validation)
Case Nº:	FD1318

Sample Identification	Matrix
008C000214	Soil
008F020195	Water
008P020195	Water
008S000101	Soil
008S000112	Soil
008S000119	Soil
008S000201	Soil
008S000214	Soil
008S000220	Soil
008S000301	Soil
008S000312	Soil
008S000322	Soil
008S000401	Soil
008S000410	Soil
008S000424	Soil
060S000201	Soil
060S000201RE	Soil
060S000210	Soil
060S000214	Soil
060S000301	Soil
060S000301RE	Soil
008S000101MS	Soil
008S000101MSD	Soil

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INTRODUCTION

This data review report covers 21 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were not met for this SDG, thus the data were qualified as follows:

Sample	Matrix	Out of Limit Holding Time/ QC Limit	Flag
060S000201RE	Soil	36/14 days	J(detect)/UJ(non-detect)
060S000301RE	Soil	36/14 days	J(detect)/UJ(non-detect)

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/24/95 19:27	RF10X / RTX5 RF1X RF20X RF2X RF4X	MCPP MCPA 2,4,5-T 2,4-D	31.7 28.7 35.4 43.7	≤20% ≤20% ≤20% ≤20%	008S000401 008S000410 008S000424 060S000201 060S000210 060S000214 060S000301 008S000112 008S000119 008S000201 008S000214 008C000214 008S000220 008S000301 008S000312 008S000322	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/28/95 17:57	RF10X / RTX35 RF1X RF20X RF2X RF4X	MCPA 2,4,5-T	21.4 25.8	≤20% ≤20%	008S000101	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/14/95 21:42	RF10X / RTX35 RF1X RF20X RF2X RF4X	Dinoseb	40.3	≤20%	060S000201RE 060S000301RE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
02/25/95 15:01	RF4X / RTX5	Dicamba MCPA Dichloroprop 2,4-D Dinoseb	-22.5 (≤15%) -29.7 (≤15%) -21.0 (≤15%) -18.7 (≤15%) -24.2 (≤15%)	008S000410 008S000424 060S000201 060S000210 060S000214 060S000301	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/25/95 21:47	RF4X / RTX5	Dicamba MCPA Dichloroprop 2,4-D Silvex 2,4,5-T Dinoseb	-34.2 (≤15%) -20.7 (≤15%) -26.0 (≤15%) -24.3 (≤15%) -24.8 (≤15%) -21.4 (≤15%) -27.1 (≤15%)	060S000301	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/27/95 04:11	RF4X / RTX5	Dicamba	-15.2 (≤15%)	008S000112 008S000119 008S000201 008S000214 008C000214	J(detect)/UJ(non-detect)
02/27/95 17:42	RF4X / RTX5	MCPA	-15.7 (≤15%)	008S000220 008S000301 008S000312 008S000322	J(detect)/UJ(non-detect)
02/27/95 10:57	RF4X / RTX5	MCPA	-17.5 (≤15%)	008S000112 008S000119 008S000201 008S000214 008C000214 008S000220 008S000301 008S000312 008S000322	J(detect)/UJ(non-detect)
03/02/95 05:19	RF4X / RTX35	2,4-DB	-23.4 (≤15%)	008S000101	J(detect)/UJ(non-detect)
03/02/95 16:50	RF4X / RTX35	2,4-DB	27.9 (≤15%)	008S000101	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency. No contaminant was found in the instrument blanks that resulted in data qualifications.

The method blanks were extracted and performed according to the SW846. No contaminant was found in the method blanks that resulted in data qualifications.

The field blanks were extracted and performed according to the SW846. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Column	Surrogate Spike Compound	%R (Adv. Limit %)	Compounds Affected	Flag
060S000201	RTX5	DCAA	0.00 (40-115%)	All compounds	J(detect)/R(non-detect)
060S000301			0.00 (40-115%)		J(detect)/R(non-detect)
008S000112			146 (40-115%)		J(detect)/None(non-detect)
008S000119			211 (40-115%)		J(detect)/None(non-detect)
008S000312			120 (40-115%)		J(detect)/None(non-detect)

The results for the reanalyzed samples 060S000201RE, and 060S000301RE should be used.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
008S000101	RTX35	Dalapon	0.00 (10-150%)	0.00 (10-150%)		J(detect)/R(non-detect)
		MCPP	180 (10-150%)	0.00 (10-150%)	200 (≤20%)	J(detect)/R(non-detect)
		Silvex	144 (10-150%)	220 (10-150%)	43 (≤20%)	J(detect)/UJ(non-detect)
		2,4-DB			23 (≤20%)	J(detect)/UJ(non-detect)
		Dinoseb	0.00 (10-150%)		200 (≤20%)	J(detect)/R(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/15/95	HLCS0310S	RTX35	Dinoseb	0.00 (10-150%)	0.00 (23.9-24)	060S000201RE 060S000301RE	J(detect)/R(non-detect)
02/25/95	LCS0215SK	RTX5	Silvex	1757.78 (10-150%)		008S000401 008S000410 008S000424 060S000201 060S000214 060S000301 060S000210	J(detect)/None(non-detect)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed. %Ds between 2 columns met QC limit except for the following:

Sample	Compound	Column	%D	QC Limit	Flag
008C000214	MCPP	RTX5	35.6	25%	J(detect)
008S000101	MCPP	RTX35	177.8	25%	J(detect)
008S000220	MCPP	RTX5	57.8	25%	J(detect)
008S000322	MCPP	RTX5	233	25%	J(detect)
008S000401	MCPP	RTX5	96.5	25%	J(detect)
008S000410	MCPP	RTX5	233.4	25%	J(detect)

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (µg/kg)		RPD (QC Limit)	Flag
	008S000214	008C000214		
MCPP	940U	220	Non-calculable	J(detect)/UJ(non-detect)

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1318

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	060S000201RE 060S000301RE	All compounds	J(detect)/UJ(non-detect)	Holding time violation
FD1318	008S000401 008S000410 008S000424 060S000201 060S000210 060S000214 060S000301 008S000112 008S000119 008S000201 008S000214 008C000214 008S000220 008S000301 008S000312 008S000322	MCPP MCPA 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1318	008S000101	MCPA 2,4,5-T	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1318	060S000201RE 060S000301RE	Dinoseb	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1318	008S000410 008S000424 060S000201 060S000210 060S000214 060S000301	Dicamba MCPA Dichloroprop 2,4-D Dinoseb	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	060S000301	Dicamba MCPA Dichloroprop 2,4-D Silvex 2,4,5-T Dinoseb	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000112 008S000119 008S000201 008S000214 008C000214	Dicamba	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000220 008S000301 008S000312 008S000322	MCPA	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000112 008S000119 008S000201 008S000214 008C000214 008S000220 008S000301 008S000312 008S000322	MCPA	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	008S000101	2,4-DB	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1318	060S000201 060S000301 008S000112 008S000119 008S000312	All compounds	J(detect)/R(non-detect) J(detect)/R(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect)	Surrogate spike %R

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	008S000101	Dalapon MCPP Silvex 2,4-DB Dinoseb	J(detect)/R(non-detect) J(detect)/R(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Matrix spike/matrix spike duplicate %R
FD1318	060S000201RE 060S000301RE	Dinoseb	J(detect)/R(non-detect)	Laboratory control sample %R
	008S000401 008S000410 008S000424 060S000201 060S000214 060S000301 060S000210	Silvex	J(detect)/None(non-detect)	Laboratory control sample %R
FD1318	008C000214 008S000101 008S000220 008S000322 008S000401 008S000410	MCPP MCPP MCPP MCPP MCPP MCPP	J(detect) J(detect) J(detect) J(detect) J(detect) J(detect)	Compound identification %D
FD1318	008S000214 008C000214	MCPP	J(detect)/UJ(non-detect)	Field duplicate RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00336 & 95.00337 (Level III Validation)
Case Nº:	FD1318

Sample Identification	Matrix
008F020195	Water
008P020195	Water
008S000101	Soil
008S000112	Soil
008S000119	Soil
008S000201	Soil
008S000214	Soil
008C000214	Soil
008S000220	Soil
008S000301	Soil
008S000312	Soil
008S000322	Soil
008S000401	Soil
008S000410	Soil
008S000424	Soil
060S000201	Soil
060S000210	Soil
060S000214	Soil
060S000301	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 17 soil samples and 2 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within ±15.0 percent.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s).

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s).

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

One set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG № FD1318

No data were qualified for this SDG.

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	GENERAL INORGANIC (Total Kjeldahl Nitrogen Analysis, Nitrate Analysis, Total Phosphorus, Total Organic Carbon, Cation Exchange Capacity)
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00336 and 95.00337 (Level III Validation)
Case Nº:	FD1318

Sample Identification	Matrix
060SDESIGN	Soil
008SDESIGN	Soil
008SDESIGNS	Soil
008SDESIGND	Soil

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INTRODUCTION

This data review report covers 4 soil samples listed on the cover page. The analyses were per EPA Method 365.3 (Total Phosphorus), Method 351.2 (Total Kjedahl Nitrogen Analysis), Method 353.2 (N as Nitrate, N as Nitrite Analysis) Analysis) in "Method for Chemical Analysis of Water and Wastes," EPA 600/4-79/020, Revised March 1983. Method Modified 9081 (Cation Exchange Capacity) and Method Modified 9060 (Total Organic Carbon) in SW846.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within ±15.0 percent.

IV. BLANKS

The method blank was extracted and performed according to the SW846. The blank was free of contamination.

No field blank was analyzed.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Parameter	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Flag
008SDESIGN	Total Phosphorus	47.4 (75-125%)	N/A	N/A	J(detect)/UJ(non-detect)

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. SYSTEM PERFORMANCE

Not applicable.

X. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

General Inorganic Data Qualification Summary - SDG Nº FD1318

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1318	008SDESIGN	Total Phosphorus	J(detect)/UJ(non-detect)	Matrix spike/matrix spike %R

FD1318 HERB													
	SAMPLE ID ------->	008-S-0001-01		008-S-0001-12		008-S-0001-19		008-S-0002-01		008-S-0002-14		008-C-0002-14	
	ORIGINAL ID ----->	008S000101		008S000112		008S000119		008S000201		008S000214		008C000214	
	LAB SAMPLE ID --->	116218		116219		116220		116221		116222		116223	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	DATE ANALYZED --->	02/26/95		02/26/95		02/26/95		02/26/95		02/26/95		02/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	UJ	9.5	UJ	9.5	UJ	9.4	UJ	9.5	UJ	9.5	UJ
88-85-7	Dinoseb	4.7	UR	4.7	U	4.7	U	4.7	U	4.7	U	4.7	U
93-76-5	2,4,5-T	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ
93-72-1	2,4,5-TP (Silvex)	0.95	UJ	0.95	U	0.95	U	0.95	U	0.95	U	0.95	U
75-99-0	Dalapon	23.	UR	23.	U	23.	U	23.	U	23.	U	23.	U
1918-00-9	Dicamba	0.94	U	0.94	UJ	0.94	UJ	0.94	UJ	0.94	UJ	0.94	UJ
120-36-5	Dichlorprop	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	14000.	UR	940.	UJ	940.	UJ	940.	UJ	940.	UJ	2200.	J
94-75-7	2,4-D	9.4	U	9.4	UJ	12.	J	9.4	UJ	9.4	UJ	9.4	UJ

*** Validation Complete ***

FD1318 HERB													
	SAMPLE ID ------->	008-S-0002-20		008-S-0003-01		008-S-0003-12		008-S-0003-22		008-S-0004-01		008-S-0004-10	
	ORIGINAL ID ----->	008S000220		008S000301		008S000312		008S000322		008S000401		008S000410	
	LAB SAMPLE ID --->	116224		116225		116226		116227		116228		116229	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	DATE ANALYZED --->	02/26/95		02/27/95		02/27/95		02/27/95		02/27/95		02/27/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ	12.	UJ	11.	UJ
88-85-7	Dinoseb	4.7	U	4.7	U	4.7	U	4.7	U	6.	U	5.7	UJ
93-76-5	2,4,5-T	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ	1.2	UJ	1.1	UJ
93-72-1	2,4,5-TP (Silvex)	0.95	U	0.95	U	0.95	U	0.95	U	1.2	U	1.1	U
75-99-0	Dalapon	23.	U	23.	U	23.	U	23.	U	29.	U	27.	U
1918-00-9	Dicamba	0.94	U	0.94	U	0.94	U	0.94	U	1.2	U	1.1	UJ
120-36-5	Dichlorprop	9.4	U	9.4	U	9.4	U	9.4	U	12.	U	11.	UJ
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	940.	UJ	1200.	UJ	1100.	UJ
93-65-2	MCPP	8200.	J	6800.	J	940.	UJ	3200.	J	3400.	J	4600.	J
94-75-7	2,4-D	9.4	UJ	9.4	UJ	9.4	UJ	9.4	UJ	12.	UJ	11.	UJ

*** Validation Complete ***

FD1318 HERB													
	SAMPLE ID ------->	008-S-0004-24		060-S-0002-01		060-S-0002-10		060-S-0002-14		060-S-0003-01			
	ORIGINAL ID ----->	008S000424		060S000201RE		060S000210		060S000214		060S000301RE			
	LAB SAMPLE ID --->	116230		116231RE		116234		116235		116236RE			
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95			
	DATE EXTRACTED -->	02/15/95		03/10/95		02/15/95		02/15/95		03/10/95			
	DATE ANALYZED --->	02/27/95		03/15/95		02/27/95		02/27/95		03/15/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter												
94-82-6	2,4-DB	10.	UJ	0.95	UJ	11.	UJ	12.	UJ	0.95	UJ		
88-85-7	Dinoseb	5.1	UJ	4.7	UR	5.6	UJ	6.	UJ	4.7	UR		
93-76-5	2,4,5-T	1.	UJ	0.95	UJ	1.1	UJ	1.2	UJ	0.95	UJ		
93-72-1	2,4,5-TP (Silvex)	1.	U	0.95	UJ	1.1	U	1.2	U	9.4	UJ		
75-99-0	Dalapon	25.	U	23.	UJ	27.	U	29.	U	23.	UJ		
1918-00-9	Dicamba	1.	UJ	0.94	UJ	3.1	J	1.2	UJ	0.94	UJ		
120-36-5	Dichlorprop	10.	UJ	9.4	UJ	11.	UJ	12.	UJ	9.4	UJ		
94-74-6	MCPA	1000.	UJ	940.	UJ	1100.	UJ	1200.	UJ	940.	UJ		
93-65-2	MCPP	1000.	UJ	940.	UJ	1100.	UJ	1200.	UJ	940.	UJ		
94-75-7	2,4-D	10.	UJ	9.4	UJ	11.	UJ	12.	UJ	9.4	UJ		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 KJELDAHL							
	SAMPLE ID ------->	008-S-DESI-GN	060-S-DESI-GN				
	ORIGINAL ID ----->	008SDESIGN	060SDESIGN				
	LAB SAMPLE ID --->	116323	116237				
	SAMPLE DATE ----->	02/01/95	02/01/95				
	DATE ANALYZED --->	02/07/95	02/07/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	MG/KG A	MG/KG A				
CAS #	Parameter						
999-99-9	Kjeldahl Nitrogen-N	150.	170.				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 METAL																			
	SAMPLE ID ------->	008-S-0001-01		008-S-0001-12'		008-S-0001-19		008-S-0002-01		008-S-0002-14		008-C-0002-14	
	ORIGINAL ID ----->	008S000101		008S000112		008S000119		008S000201		008S000214		008C000214	
	LAB SAMPLE ID --->	7-116238S		7-116239S		7-116240S		7-116241S		7-116242S		7-116243S	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		02/01/95		02/01/95		02/01/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	10.3	UJ	10.5	UJ	9.9	UJ	10.6	UJ	10.3	UJ	10.2	UJ
AS	Arsenic	13.4		6.4		4.4		13.1		7.5		8.1	
BA	Barium	99.8		59.3		101.		103.		62.8		62.3	
BE	Beryllium	0.51	J	0.33	J	0.57	J	0.61	J	0.36	J	0.35	J
CD	Cadmium	3.		1.3		2.3		3.1		1.9		1.9	
CR	Chromium	13.1		9.6		13.9		17.2		12.		9.5	
CO	Cobalt	7.8	J	6.5	J	7.	J	9.	J	6.1	J	6.6	J
CU	Copper	18.9		12.9		11.2		18.6		14.3		14.8	
PB	Lead	15.5	J	7.2	J	7.1	J	19.6	J	10.5	J	11.2	J
HG	Mercury	0.13		0.13	U	0.12	U	0.13	U	0.12	U	0.12	U
NI	Nickel	16.6		15.4		13.8		15.4		15.8		17.9	
SE	Selenium	0.76	J	0.53	UJ	0.49	U	0.54	UJ	0.51	UJ	0.51	UJ
AG	Silver	1.1	UJ	0.89	UJ	0.91	UJ	0.87	UJ	1.4	UJ	1.2	UJ
TL	Thallium	0.52	U	0.53	U	0.49	U	0.53	U	0.51	U	0.51	U
V	Vanadium	32.5		19.		30.3		38.3		22.5		18.9	
ZN	Zinc	63.9		34.2		34.3		62.6		41.1		42.5	
SN	Tin	14.1	U	15.3	U	5.3	U	10.8	U	8.4	U	10.9	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 METAL						
SAMPLE ID ------->	008-S-0002-20	008-S-0003-01	008-S-0003-12	008-S-0003-22	008-S-0004-01	008-S-0004-10
ORIGINAL ID ----->	008S000220	008S000301	008S000312	008S000322	008S000401	008S000410
LAB SAMPLE ID --->	7-116244S	7-116245S	7-116246S	7-116247S	7-116248S	7-116249S
SAMPLE DATE ----->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
SB Antimony	9.8 UJ	10.3 UJ	9.8 UJ	9.9 UJ	10.1 UJ	10. UJ
AS Arsenic	4.6	7.5	7.3	2.6	9.6	8.7
BA Barium	92.6	74.8	92.3	108.	117.	152.
BE Beryllium	0.51 J	0.44 J	0.48 J	0.64 J	0.55 J	0.51 J
CD Cadmium	2.3	1.8	2.6	2.6	2.1	2.2
CR Chromium	13.2	10.3	12.6	18.7	14.5	11.9
CO Cobalt	6.7 J	8.6 J	8.3 J	8.6 J	8.3 J	8.1 J
CU Copper	10.2	11.4	16.5	12.5	14.8	17.
PB Lead	11.2 J	15.7 J	11.9 J	8.7 J	14.9 J	13.3 J
HG Mercury	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
NI Nickel	13.4	13.5	20.	16.4	18.9	22.3
SE Selenium	0.49 U	0.52 U	0.49 UJ	0.5 U	0.83 J	0.5 U
AG Silver	1. UJ	2.1 UJ	0.74 UJ	1.1 UJ	1.6 UJ	1.7 UJ
TL Thallium	0.49 U	0.52 U	0.49 U	0.5 U	0.5 U	0.5 U
V Vanadium	27.9	22.4	26.4	38.6	34.7	25.5
ZN Zinc	30.5	40.5	51.6	35.5	53.5	59.4
SN Tin	7.3 U	13.9 U	8.9 U	13.1 U	19. U	19.5 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 METAL																	
	SAMPLE ID ------->	008-S-0004-24		060-S-0002-01		060-S-0002-10		060-S-0002-14		060-S-0003-01	
	ORIGINAL ID ----->	008S000424		060S000201		060S000210		060S000214		060S000301	
	LAB SAMPLE ID --->	7-116250S		7-116251S		7-116252S		7-116253S		7-116254S	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter										
SB	Antimony	9.7	UJ	10.2	UJ	10.3	UJ	10.	UJ	9.7	UJ
AS	Arsenic	4.		4.4		10.4		7.4		10.7	
BA	Barium	100.		82.1		131.		92.8		61.6	
BE	Beryllium	0.52	J	0.42	J	0.52	J	0.38	J	0.41	J
CD	Cadmium	1.7		1.2	J	2.3		2.3		2.8	
CR	Chromium	12.4		8.5		13.6		10.8		14.6	
CO	Cobalt	6.8	J	5.3	J	8.2	J	6.3	J	9.1	J
CU	Copper	10.6		7.4		19.2		13.4		14.4	
PB	Lead	8.6	J	9.3	J	12.5	J	11.4	J	19.1	J
HG	Mercury	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
NI	Nickel	12.2		7.1	J	19.1		13.9		11.9	
SE	Selenium	0.49	U	0.59	UJ	0.52	U	0.5	U	0.95	J
AG	Silver	1.	UJ	0.77	UJ	1.3	UJ	1.4	UJ	1.7	UJ
TL	Thallium	0.49	U	0.51	U	0.52	U	0.5	U	0.48	U
V	Vanadium	25.8		18.		24.1		20.4		33.6	
ZN	Zinc	30.2		33.9		60.8		41.9		46.1	
SN	Tin	12.4	U	16.	U	15.7	U	13.7	U	9.9	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 METAL-CN							
	SAMPLE ID ------->	008-S-0001-01	008-S-0001-12	008-S-0001-19	008-S-0002-01	008-S-0002-14	008-C-0002-14
	ORIGINAL ID ----->	008S000101	008S000112	008S000119	008S000201	008S000214	008C000214
	LAB SAMPLE ID --->	116238	116239	116240	116241	116242	116243
	SAMPLE DATE ----->	01/31/95	01/31/95	01/31/95	02/01/95	02/01/95	02/01/95
	DATE EXTRACTED -->	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95
	DATE ANALYZED --->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS #	Parameter						
CN	Cyanide	0.64 U	0.65 U	0.61 U	0.65 U	0.64 U	0.63 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 METAL-CN						
SAMPLE ID ------->	008-S-0002-20	008-S-0003-01	008-S-0003-12	008-S-0003-22	008-S-0004-01	008-S-0004-10
ORIGINAL ID ----->	008S000220	008S000301	008S000312	008S000322	008S000401	008S000410
LAB SAMPLE ID --->	116244	116245	116246	116247	116248	116249
SAMPLE DATE ----->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95
DATE EXTRACTED -->	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95
DATE ANALYZED --->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.61 U	0.64 U	0.61 U	0.61 U	0.62 U	0.63 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 METAL-CN						
SAMPLE ID ------->	008-S-0004-24	060-S-0002-01	060-S-0002-10	060-S-0002-14	060-S-0003-01	
ORIGINAL ID ----->	008S000424	060S000201	060S000210	060S000214	060S000301	
LAB SAMPLE ID --->	116250	116251	116252	116253	116254	
SAMPLE DATE ----->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	
DATE EXTRACTED -->	02/06/95	02/06/95	02/06/95	02/06/95	02/06/95	
DATE ANALYZED --->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	
CAS # Parameter						
CN Cyanide	0.61 U	0.63 U	0.65 U	0.62 U	0.6 U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 NITRATE							
	SAMPLE ID ------->	008-S-DESI-GN	060-S-DESI-GN				
	ORIGINAL ID ----->	008SDESIGN	060SDESIGN				
	LAB SAMPLE ID --->	116323	116237				
	SAMPLE DATE ----->	02/01/95	02/01/95				
	DATE EXTRACTED -->	02/07/95	02/03/95				
	DATE ANALYZED --->	02/09/95	02/06/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	MG/KG A	MG/KG A				
CAS #	Parameter						
9999900-03-4	Nitrate-N	26.	31.				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 OP PEST													
	SAMPLE ID ------->	008-S-0001-01		008-S-0001-12		008-S-0001-19		008-S-0002-01		008-S-0002-14		008-C-0002-14	
	ORIGINAL ID ----->	008S000101		008S000112		008S000119		008S000201		008S000214		008C000214	
	LAB SAMPLE ID --->	116218		116219		116220		116221		116222		116223	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	DATE ANALYZED --->	02/26/95		02/26/95		02/26/95		02/26/95		02/26/95		02/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	210.	UJ	220.	UJ	210.	UJ	220.	UJ	210.	UJ	200.	UJ
35400-43-2	Sulprofos	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
2921-88-2	Chloropyrifos	110.	UJ	110.	U	100.	U	110.	U	100.	U	100.	U
56-72-4	Coumaphos	110.	UJ	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
8065-48-3	Demeton,O	110.	UJ	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
333-41-5	Diazinon	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
62-73-7	Dichlorvos	110.	UJ	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
298-04-4	Disulfoton	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
13194-48-4	Ethoprop	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
115-90-2	Fensulfothion	110.	UJ	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
55-38-9	Fenthion	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
150-50-5	Merphos	110.	UR	110.	UR	100.	UR	110.	UR	100.	UR	100.	UJ
7786-34-7	Mevinphos, Alpha	110.	UJ	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
300-76-5	Naled	110.	UJ	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
298-00-0	Methyl parathion	110.	UJ	110.	U	100.	U	110.	U	100.	U	100.	U
298-02-2	Phorate	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
299-84-3	Ronnel	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	U	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
34643-46-4	Tokuthion	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
327-98-0	Trichloronate	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U
126-75-0	Demeton,S	110.	U	110.	U	100.	U	110.	U	100.	U	100.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 OP PEST													
	SAMPLE ID ------->	008-S-0002-20		008-S-0003-01		008-S-0003-12		008-S-0003-22		008-S-0004-01		008-S-0004-10	
	ORIGINAL ID ----->	008S000220		008S000301		008S000312		008S000322		008S000401		008S000410	
	LAB SAMPLE ID --->	116224		116225		116226		116227		116228		116229	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	DATE ANALYZED --->	02/26/95		02/27/95		02/27/95		02/27/95		02/27/95		02/27/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	200.	UJ	210.	UJ	210.	UJ	210.	UJ	210.	UJ	210.	UJ
35400-43-2	Sulprofos	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
2921-88-2	Chloropyrifos	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
56-72-4	Coumaphos	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
8065-48-3	Demeton,O	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
333-41-5	Diazinon	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
62-73-7	Dichlorvos	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
298-04-4	Disulfoton	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
13194-48-4	Ethoprop	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
115-90-2	Fensulfothion	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
55-38-9	Fenthion	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
150-50-5	Merphos	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
7786-34-7	Mevinphos, Alpha	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
300-76-5	Naled	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
298-00-0	Methyl parathion	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
298-02-2	Phorate	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
299-84-3	Ronnel	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	98.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ	100.	UJ
34643-46-4	Tokuthion	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
327-98-0	Trichloronate	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U
126-75-0	Demeton,S	98.	U	100.	U	100.	U	100.	U	110.	U	100.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 OP PEST											
	SAMPLE ID ------->	008-S-0004-24		060-S-0002-01		060-S-0002-10		060-S-0002-14		060-S-0003-01	
	ORIGINAL ID ----->	008S000424		060S000201		060S000210		060S000214		060S000301	
	LAB SAMPLE ID --->	116230		116231		116234		116235		116236	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/14/95	
	DATE ANALYZED --->	02/27/95		02/27/95		02/27/95		02/27/95		02/27/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter										
86-50-0	Guthion	200.	UJ	210.	UJ	220.	UJ	200.	UJ	200.	UJ
35400-43-2	Sulprofos	100.	U	100.	U	110.	U	99.	U	98.	U
2921-88-2	Chloropyrifos	100.	U	100.	U	110.	U	99.	U	98.	U
56-72-4	Coumaphos	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	UJ
8065-48-3	Demeton,O	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	UJ
333-41-5	Diazinon	100.	U	100.	U	110.	U	99.	U	98.	U
62-73-7	Dichlorvos	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	UJ
298-04-4	Disulfoton	100.	U	100.	U	110.	U	99.	U	98.	U
13194-48-4	Ethoprop	100.	U	100.	U	110.	U	99.	U	98.	U
115-90-2	Fensulfothion	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	UJ
55-38-9	Fenthion	100.	U	100.	U	110.	U	99.	U	98.	U
150-50-5	Merphos	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	UR
7786-34-7	Mevinphos, Alpha	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	UJ
300-76-5	Naled	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	U
298-00-0	Methyl parathion	100.	U	100.	U	110.	U	99.	U	98.	U
298-02-2	Phorate	100.	U	100.	U	110.	U	99.	U	98.	U
299-84-3	Ronnel	100.	U	100.	U	110.	U	99.	U	98.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	UJ	100.	UJ	110.	UJ	99.	UJ	98.	UJ
34643-46-4	Tokuthion	100.	U	100.	U	110.	U	99.	U	98.	U
327-98-0	Trichloronate	100.	U	100.	U	110.	U	99.	U	98.	U
126-75-0	Demeton,S	100.	U	100.	U	110.	U	99.	U	98.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 PEST													
	SAMPLE ID ------->	008-S-0001-01		008-S-0001-12		008-S-0001-19		008-S-0002-01		008-S-0002-14		008-C-0002-14	
	ORIGINAL ID ----->	008S000101		008S000112		008S000119		008S000201		008S000214		008C000214	
	LAB SAMPLE ID --->	116238		116239		116240		116241		116242		116243	
	SAMPLE DATE ----->			01/31/95		01/31/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->			02/14/95		02/14/95		02/14/95		02/14/95		02/14/95	
	DATE ANALYZED --->			02/23/95		02/23/95		02/23/95		02/23/95		02/23/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->		A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
319-85-7	beta-BHC	2.3	UJ	2.2	UJ	2.1	UJ	2.2	UJ	2.3	UJ	2.3	UJ
319-86-8	delta-BHC	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
76-44-8	Heptachlor	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
309-00-2	Aldrin	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
959-98-8	Endosulfan I	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
60-57-1	Dieldrin	65.	J	4.3	U	4.	U	5.1	J	4.4	U	4.4	U
72-55-9	4,4'-DDE	4.5	UJ	4.3	UJ	4.	UJ	4.3	UJ	4.4	UJ	4.4	UJ
72-20-8	Endrin	4.5	U	4.3	U	4.	U	4.3	U	4.4	U	4.4	U
33213-65-9	Endosulfan II	4.5	U	4.3	U	4.	U	4.3	U	4.4	U	4.4	U
72-54-8	4,4'-DDD	4.5	U	4.3	U	4.	U	4.3	U	4.4	U	4.4	U
1031-07-8	Endosulfan sulfate	4.5	U	4.3	U	4.	U	4.3	U	4.4	U	4.4	U
50-29-3	4,4'-DDT	4.5	U	4.3	U	4.	U	4.3	U	4.4	U	4.4	U
72-43-5	Methoxychlor	23.	U	22.	U	21.	U	22.	U	23.	U	23.	U
53494-70-5	Endrin ketone	4.5	U	4.3	U	4.	U	4.3	U	4.4	U	4.4	U
7421-36-3	Endrin aldehyde	4.5	U	4.3	U	4.	U	4.3	U	4.4	U	4.4	U
5103-71-9	alpha-Chlordane	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
5103-74-2	gamma-Chlordane	2.3	U	2.2	U	2.1	U	2.2	U	2.3	U	2.3	U
8001-35-2	Toxaphene	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U
12674-11-2	Aroclor-1016	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U
11104-28-2	Aroclor-1221	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U
11141-16-5	Aroclor-1232	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U
53469-21-9	Aroclor-1242	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U
12672-29-6	Aroclor-1248	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U
11097-69-1	Aroclor-1254	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U
11096-82-5	Aroclor-1260	45.	U	43.	U	40.	U	43.	U	44.	U	44.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 PEST													
	SAMPLE ID ------->	008-S-0002-20		008-S-0003-01		008-S-0003-12		008-S-0003-22		008-S-0004-01		008-S-0004-10	
	ORIGINAL ID ----->	008S000220		008S000301		008S000312		008S000322		008S000401		008S000410	
	LAB SAMPLE ID --->	116244		116245		116246		116247		116248		116249	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/14/95		02/14/95		02/14/95		02/14/95		02/14/95		02/14/95	
	DATE ANALYZED --->	02/23/95		02/24/95		02/24/95		02/24/95		02/24/95		02/24/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
319-85-7	beta-BHC	2.1	UJ	2.1	UJ	2.	UJ	2.1	UJ	2.	UJ	2.2	UJ
319-86-8	delta-BHC	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
58-89-9	gamma-BHC (Lindane)	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
76-44-8	Heptachlor	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
309-00-2	Aldrin	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
1024-57-3	Heptachlor epoxide	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
959-98-8	Endosulfan I	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
60-57-1	Dieldrin	4.1	U	471.	JD	3.9	U	4.1	U	35.	J	4.2	U
72-55-9	4,4'-DDE	4.1	UJ	4.1	UJ	3.9	UJ	4.1	UJ	3.9	UJ	4.2	UJ
72-20-8	Endrin	4.1	U	4.1	U	3.9	U	4.1	U	3.9	U	4.2	U
33213-65-9	Endosulfan II	4.1	U	4.1	UJ	3.9	UJ	4.1	UJ	3.9	UJ	4.2	UJ
72-54-8	4,4'-DDD	4.1	U	4.1	UJ	3.9	UJ	4.1	UJ	3.9	UJ	4.2	UJ
1031-07-8	Endosulfan sulfate	4.1	U	4.1	U	3.9	U	4.1	U	3.9	U	4.2	U
50-29-3	4,4'-DDT	4.1	U	4.1	UJ	3.9	UJ	4.1	UJ	3.9	UJ	4.2	UJ
72-43-5	Methoxychlor	21.	U	21.	UJ	20.	UJ	21.	UJ	20.	UJ	22.	UJ
53494-70-5	Endrin ketone	4.1	U	4.1	U	3.9	U	4.1	U	3.9	U	4.2	U
7421-36-3	Endrin aldehyde	4.1	U	4.1	U	3.9	U	4.1	U	3.9	U	4.2	U
5103-71-9	alpha-Chlordane	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
5103-74-2	gamma-Chlordane	2.1	U	2.1	U	2.	U	2.1	U	2.	U	2.2	U
8001-35-2	Toxaphene	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U
12674-11-2	Aroclor-1016	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U
11104-28-2	Aroclor-1221	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U
11141-16-5	Aroclor-1232	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U
53469-21-9	Aroclor-1242	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U
12672-29-6	Aroclor-1248	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U
11097-69-1	Aroclor-1254	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U
11096-82-5	Aroclor-1260	41.	U	41.	U	39.	U	41.	U	39.	U	42.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 PEST													
	SAMPLE ID ------->	008-S-0004-24		060-S-0002-01		060-S-0002-10		060-S-0002-14		060-S-0003-01			
	ORIGINAL ID ----->	008S000424		060S000201		060S000210		060S000214		060S000301			
	LAB SAMPLE ID --->	116250		116251C		116252		116253		116254			
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95			
	DATE EXTRACTED -->	02/14/95		02/14/95		02/15/95		02/15/95		02/15/95			
	DATE ANALYZED --->	02/24/95		02/27/95		02/24/95		02/26/95		02/26/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter												
319-84-6	alpha-BHC	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
319-85-7	beta-BHC	2.1	UJ	2.3	U	2.2	UJ	2.2	U	2.	U		
319-86-8	delta-BHC	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
58-89-9	gamma-BHC (Lindane)	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
76-44-8	Heptachlor	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
309-00-2	Aldrin	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
1024-57-3	Heptachlor epoxide	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
959-98-8	Endosulfan I	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
60-57-1	Dieldrin	4.1	U	69.		4.3	U	4.2	U	4.	U		
72-55-9	4,4'-DDE	4.1	UJ	16.		4.3	UJ	4.2	U	4.	U		
72-20-8	Endrin	4.1	U	4.4	U	4.3	U	4.2	U	4.	U		
33213-65-9	Endosulfan II	4.1	UJ	4.4	U	4.3	UJ	4.2	U	4.	U		
72-54-8	4,4'-DDD	4.1	UJ	4.4	U	4.3	UJ	4.2	U	4.	U		
1031-07-8	Endosulfan sulfate	4.1	U	4.4	U	4.3	U	4.2	U	4.	U		
50-29-3	4,4'-DDT	4.1	UJ	11.	J	4.3	UJ	4.2	U	4.	U		
72-43-5	Methoxychlor	21.	UJ	23.	U	22.	UJ	22.	U	20.	U		
53494-70-5	Endrin ketone	4.1	U	4.4	U	4.3	U	4.2	U	4.	U		
7421-36-3	Endrin aldehyde	4.1	U	4.4	UJ	4.3	U	4.2	UJ	4.	UJ		
5103-71-9	alpha-Chlordane	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
5103-74-2	gamma-Chlordane	2.1	U	2.3	U	2.2	U	2.2	U	2.	U		
8001-35-2	Toxaphene	41.	U	44.	U	43.	U	42.	U	40.	U		
12674-11-2	Aroclor-1016	41.	U	44.	U	43.	U	42.	U	40.	U		
11104-28-2	Aroclor-1221	41.	U	44.	U	43.	U	42.	U	40.	U		
11141-16-5	Aroclor-1232	41.	U	44.	U	43.	U	42.	U	40.	U		
53469-21-9	Aroclor-1242	41.	U	44.	U	43.	U	42.	U	40.	U		
12672-29-6	Aroclor-1248	41.	U	44.	U	43.	U	42.	U	40.	U		
11097-69-1	Aroclor-1254	41.	U	44.	U	43.	U	42.	U	40.	U		
11096-82-5	Aroclor-1260	41.	U	44.	U	43.	U	42.	U	40.	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 SVOA													
	SAMPLE ID ------->	008-S-0001-01		008-S-0001-12		008-S-0001-19		008-S-0002-01		008-S-0002-14		008-C-0002-14	
	ORIGINAL ID ----->	008S000101		008S000112		008S000119		008S000201		008S000214		008C000214	
	LAB SAMPLE ID --->	116238		116239		116240		116241		116242		116243	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/13/95		02/17/95		02/13/95		02/15/95		02/15/95		02/15/95	
	DATE ANALYZED --->	02/16/95		02/21/95		02/16/95		02/21/95		02/21/95		02/21/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
67-72-1	Hexachloroethane	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
78-59-1	Isophorone	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
88-75-5	2-Nitrophenol	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
105-67-9	2,4-Dimethylphenol	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
111-91-1	bis(2-Chloroethoxy)methane	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
120-83-2	2,4-Dichlorophenol	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
120-82-1	1,2,4-Trichlorobenzene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
91-20-3	Naphthalene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
106-47-8	4-Chloroaniline	430.	UJ	420.	UJ	410.	UJ	470.	UJ	350.	UJ	340.	UJ
87-68-3	Hexachlorobutadiene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
59-50-7	4-Chloro-3-methylphenol	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
91-57-6	2-Methylnaphthalene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
77-47-4	Hexachlorocyclopentadiene	430.	UJ	420.	UJ	410.	UJ	470.	UJ	350.	UJ	340.	UJ
88-06-2	2,4,6-Trichlorophenol	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U	1000.	UJ	990.	U	1100.	U	860.	U	820.	U
91-58-7	2-Chloronaphthalene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
88-74-4	2-Nitroaniline	1100.	U	1000.	UJ	990.	U	1100.	U	860.	U	820.	U
131-11-3	Dimethylphthalate	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
208-96-8	Acenaphthylene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
606-20-2	2,6-Dinitrotoluene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
99-09-2	3-Nitroaniline	1100.	U	1000.	UJ	990.	U	1100.	U	860.	U	820.	U
83-32-9	Acenaphthene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
51-28-5	2,4-Dinitrophenol	1100.	UJ	1000.	UJ	990.	UJ	1100.	UJ	860.	UJ	820.	UJ
100-02-7	4-Nitrophenol	1100.	U	1000.	UJ	990.	U	1100.	UJ	860.	UJ	820.	UJ
132-64-9	Dibenzofuran	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
121-14-2	2,4-Dinitrotoluene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
84-66-2	Diethylphthalate	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
7005-72-3	4-Chlorophenylphenylether	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
86-73-7	Fluorene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
100-01-6	4-Nitroaniline	1100.	U	1000.	UJ	990.	U	1100.	U	860.	U	820.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U	1000.	UJ	990.	U	1100.	UJ	860.	UJ	820.	UJ
86-30-6	N-Nitrosodiphenylamine	430.	UJ	420.	UJ	410.	UJ	470.	UJ	350.	UJ	340.	UJ
101-55-3	4-Bromophenylphenylether	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
118-74-1	Hexachlorobenzene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U
87-86-5	Pentachlorophenol	1100.	U	1000.	UJ	990.	U	1100.	U	860.	U	820.	U
85-01-8	Phenanthrene	430.	U	420.	UJ	410.	U	470.	U	350.	U	340.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 SVOA						
SAMPLE ID ------->	008-S-0001-01	008-S-0001-12	008-S-0001-19	008-S-0002-01	008-S-0002-14	008-C-0002-14
ORIGINAL ID ----->	008S000101	008S000112	008S000119	008S000201	008S000214	008C000214
LAB SAMPLE ID --->	116238	116239	116240	116241	116242	116243
SAMPLE DATE ----->	01/31/95	01/31/95	01/31/95	02/01/95	02/01/95	02/01/95
DATE EXTRACTED -->	02/13/95	02/17/95	02/13/95	02/15/95	02/15/95	02/15/95
DATE ANALYZED --->	02/16/95	02/21/95	02/16/95	02/21/95	02/21/95	02/21/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
120-12-7 Anthracene	430. U	420. UJ	410. U	470. U	350. U	340. U
86-74-8 Carbazole	430. U	420. UJ	410. U	470. U	350. U	340. U
84-74-2 Di-n-butylphthalate	430. U	420. UJ	410. U	470. U	350. U	340. U
206-44-0 Fluoranthene	430. U	420. UJ	410. U	470. U	350. U	340. U
129-00-0 Pyrene	430. U	420. UJ	410. U	470. U	350. U	340. U
85-68-7 Butylbenzylphthalate	430. U	420. UJ	410. U	470. U	350. U	340. U
91-94-1 3,3'-Dichlorobenzidine	430. UJ	420. UJ	410. UJ	470. U	350. U	340. U
56-55-3 Benzo(a)anthracene	430. U	420. UJ	410. U	470. U	350. U	340. U
218-01-9 Chrysene	430. U	420. UJ	410. U	470. U	350. U	340. U
117-81-7 bis(2-Ethylhexyl)phthalate (BEHP)	430. UJ	420. UJ	410. UJ	470. UJ	350. UJ	340. UJ
117-84-0 Di-n-octylphthalate	430. U	420. UJ	410. U	470. U	350. U	340. U
205-99-2 Benzo(b)fluoranthene	430. U	420. UJ	410. U	470. U	350. U	340. U
207-08-9 Benzo(k)fluoranthene	430. U	420. UJ	410. U	470. U	350. U	340. U
50-32-8 Benzo(a)pyrene	430. U	420. UJ	410. U	470. U	350. U	340. U
193-39-5 Indeno(1,2,3-cd)pyrene	430. U	420. UJ	410. U	470. U	350. U	340. U
53-70-3 Dibenzo(a,h)anthracene	430. U	420. UJ	410. U	470. U	350. U	340. U
191-24-2 Benzo(g,h,i)perylene	430. U	420. UJ	410. U	470. U	350. U	340. U
108-95-2 Phenol	430. U	420. UJ	410. U	470. UJ	350. UJ	340. UJ
111-44-4 bis(2-Chloroethyl)ether	430. U	420. UJ	410. U	470. U	350. U	340. U
95-57-8 2-Chlorophenol	430. U	420. UJ	410. U	470. U	350. U	340. U
541-73-1 1,3-Dichlorobenzene	430. U	420. UJ	410. U	470. U	350. U	340. U
106-46-7 1,4-Dichlorobenzene	430. U	420. UJ	410. U	470. U	350. U	340. U
95-50-1 1,2-Dichlorobenzene	430. U	420. UJ	410. U	470. U	350. U	340. U
95-48-7 2-Methylphenol (o-Cresol)	430. U	420. UJ	410. U	470. U	350. U	340. U
108-60-1 2,2'-oxybis(1-Chloropropane)	430. U	420. UJ	410. U	470. UJ	350. UJ	340. UJ
106-44-5 4-Methylphenol (p-Cresol)	430. U	420. UJ	410. U	470. U	350. U	340. U
98-95-3 Nitrobenzene	430. U	420. UJ	410. U	470. U	350. U	340. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 SVOA													
	SAMPLE ID ------->	008-S-0002-20		008-S-0003-01		008-S-0003-12		008-S-0003-22		008-S-0004-01		008-S-0004-10	
	ORIGINAL ID ----->	008S000220		008S000301		008S000312		008S000322		008S000401		008S000410	
	LAB SAMPLE ID --->	116244		116245		116246		116247		116248		116249	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	DATE ANALYZED --->	02/21/95		02/21/95		02/21/95		02/21/95		02/21/95		02/21/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
67-72-1	Hexachloroethane	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
78-59-1	Isophorone	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
88-75-5	2-Nitrophenol	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
105-67-9	2,4-Dimethylphenol	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
111-91-1	bis(2-Chloroethoxy)methane	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
120-83-2	2,4-Dichlorophenol	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
120-82-1	1,2,4-Trichlorobenzene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
91-20-3	Naphthalene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
106-47-8	4-Chloroaniline	350.	UJ	430.	UJ	340.	UJ	490.	UJ	330.	UJ	400.	UJ
87-68-3	Hexachlorobutadiene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
59-50-7	4-Chloro-3-methylphenol	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
91-57-6	2-Methylnaphthalene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
77-47-4	Hexachlorocyclopentadiene	350.	UJ	430.	UJ	340.	UJ	490.	UJ	330.	UJ	400.	UJ
88-06-2	2,4,6-Trichlorophenol	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
95-95-4	2,4,5-Trichlorophenol	850.	U	1100.	U	820.	U	1200.	U	800.	U	960.	U
91-58-7	2-Chloronaphthalene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
88-74-4	2-Nitroaniline	850.	U	1100.	U	820.	U	1200.	U	800.	U	960.	U
131-11-3	Dimethylphthalate	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
208-96-8	Acenaphthylene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
606-20-2	2,6-Dinitrotoluene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
99-09-2	3-Nitroaniline	850.	U	1100.	U	820.	U	1200.	U	800.	U	960.	U
83-32-9	Acenaphthene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
51-28-5	2,4-Dinitrophenol	850.	UJ	1100.	UJ	820.	UJ	1200.	UJ	800.	UJ	960.	UJ
100-02-7	4-Nitrophenol	850.	UJ	1100.	UJ	820.	UJ	1200.	UJ	800.	UJ	960.	UJ
132-64-9	Dibenzofuran	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
121-14-2	2,4-Dinitrotoluene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
84-66-2	Diethylphthalate	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
7005-72-3	4-Chlorophenylphenylether	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
86-73-7	Fluorene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
100-01-6	4-Nitroaniline	850.	U	1100.	U	820.	U	1200.	U	800.	U	960.	U
534-52-1	4,6-Dinitro-2-methylphenol	850.	UJ	1100.	UJ	820.	UJ	1200.	UJ	800.	UJ	960.	UJ
86-30-6	N-Nitrosodiphenylamine	350.	UJ	430.	UJ	340.	UJ	490.	UJ	330.	UJ	400.	UJ
101-55-3	4-Bromophenylphenylether	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
118-74-1	Hexachlorobenzene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U
87-86-5	Pentachlorophenol	850.	U	1100.	U	820.	U	1200.	U	800.	U	960.	U
85-01-8	Phenanthrene	350.	U	430.	U	340.	U	490.	U	330.	U	400.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 SVOA						
SAMPLE ID ------->	008-S-0002-20	008-S-0003-01	008-S-0003-12	008-S-0003-22	008-S-0004-01	008-S-0004-10
ORIGINAL ID ----->	008S000220	008S000301	008S000312	008S000322	008S000401	008S000410
LAB SAMPLE ID --->	116244	116245	116246	116247	116248	116249
SAMPLE DATE ----->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95
DATE EXTRACTED -->	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95
DATE ANALYZED --->	02/21/95	02/21/95	02/21/95	02/21/95	02/21/95	02/21/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
120-12-7 Anthracene	350. U	430. U	340. U	490. U	330. U	400. U
86-74-8 Carbazole	350. U	430. U	340. U	490. U	330. U	400. U
84-74-2 Di-n-butylphthalate	350. U	430. U	340. U	490. U	330. U	400. U
206-44-0 Fluoranthene	350. U	430. U	340. U	490. U	330. U	400. U
129-00-0 Pyrene	350. U	430. U	340. U	490. U	330. U	400. U
85-68-7 Butylbenzylphthalate	350. U	430. U	340. U	490. U	330. U	400. U
91-94-1 3,3'-Dichlorobenzidine	350. U	430. U	340. U	490. U	330. U	400. U
56-55-3 Benzo(a)anthracene	350. U	430. U	340. U	490. U	330. U	400. U
218-01-9 Chrysene	350. U	430. U	340. U	490. U	330. U	400. U
117-81-7 bis(2-Ethylhexyl)phthalate (BEHP)	350. UJ	430. UJ	340. UJ	490. UJ	330. UJ	400. UJ
117-84-0 Di-n-octylphthalate	350. U	430. U	340. U	490. U	330. U	400. U
205-99-2 Benzo(b)fluoranthene	350. U	430. U	340. U	490. U	330. U	400. U
207-08-9 Benzo(k)fluoranthene	350. U	430. U	340. U	490. U	330. U	400. U
50-32-8 Benzo(a)pyrene	350. U	430. U	340. U	490. U	330. U	400. U
193-39-5 Indeno(1,2,3-cd)pyrene	350. U	430. U	340. U	490. U	330. U	400. U
53-70-3 Dibenzo(a,h)anthracene	350. U	430. U	340. U	490. U	330. U	400. U
191-24-2 Benzo(g,h,i)perylene	350. U	430. U	340. U	490. U	330. U	400. U
108-95-2 Phenol	350. UJ	430. UJ	340. UJ	490. UJ	330. UJ	400. UJ
111-44-4 bis(2-Chloroethyl)ether	350. U	430. U	340. U	490. U	330. U	400. U
95-57-8 2-Chlorophenol	350. U	430. U	340. U	490. U	330. U	400. U
541-73-1 1,3-Dichlorobenzene	350. U	430. U	340. U	490. U	330. U	400. U
106-46-7 1,4-Dichlorobenzene	350. U	430. U	340. U	490. U	330. U	400. U
95-50-1 1,2-Dichlorobenzene	350. U	430. U	340. U	490. U	330. U	400. U
95-48-7 2-Methylphenol (o-Cresol)	350. U	430. U	340. U	490. U	330. U	400. U
108-60-1 2,2'-oxybis(1-Chloropropane)	350. UJ	430. UJ	340. UJ	490. UJ	330. UJ	400. UJ
106-44-5 4-Methylphenol (p-Cresol)	350. U	430. U	340. U	490. U	330. U	400. U
98-95-3 Nitrobenzene	350. U	430. U	340. U	490. U	330. U	400. U

*** Validation Complete ***

FD1318 SVOA													
	SAMPLE ID ------->	008-S-0004-24		060-S-0002-01		060-S-0002-10		060-S-0002-14		060-S-0003-01			
	ORIGINAL ID ----->	008S000424		060S000201		060S000210		060S000214		060S000301			
	LAB SAMPLE ID --->	116250		116251		116252		116253		116254			
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95			
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95			
	DATE ANALYZED --->	02/21/95		02/21/95		02/21/95		02/21/95		02/21/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	420.	U	470.	U	430.	U	420.	U	400.	U		
67-72-1	Hexachloroethane	420.	U	470.	U	430.	U	420.	U	400.	U		
78-59-1	Isophorone	420.	U	470.	U	430.	U	420.	U	400.	U		
88-75-5	2-Nitrophenol	420.	U	470.	U	430.	U	420.	U	400.	U		
105-67-9	2,4-Dimethylphenol	420.	U	470.	U	430.	U	420.	U	400.	U		
111-91-1	bis(2-Chloroethoxy)methane	420.	U	470.	U	430.	U	420.	U	400.	U		
120-83-2	2,4-Dichlorophenol	420.	U	470.	U	430.	U	420.	U	400.	U		
120-82-1	1,2,4-Trichlorobenzene	420.	U	470.	U	430.	U	420.	U	400.	U		
91-20-3	Naphthalene	420.	U	470.	U	430.	U	420.	U	400.	U		
106-47-8	4-Chloroaniline	420.	UJ	470.	U	430.	U	420.	U	400.	U		
87-68-3	Hexachlorobutadiene	420.	U	470.	U	430.	U	420.	U	400.	U		
59-50-7	4-Chloro-3-methylphenol	420.	U	470.	U	430.	U	420.	U	400.	U		
91-57-6	2-Methylnaphthalene	420.	U	470.	U	430.	U	420.	U	400.	U		
77-47-4	Hexachlorocyclopentadiene	420.	UJ	470.	UJ	430.	UJ	420.	UJ	400.	UJ		
88-06-2	2,4,6-Trichlorophenol	420.	U	470.	U	430.	U	420.	U	400.	U		
95-95-4	2,4,5-Trichlorophenol	1000.	U	1100.	U	1000.	U	1000.	U	960.	U		
91-58-7	2-Chloronaphthalene	420.	U	470.	U	430.	U	420.	U	400.	U		
88-74-4	2-Nitroaniline	1000.	U	1100.	U	1000.	U	1000.	U	960.	U		
131-11-3	Dimethylphthalate	420.	U	470.	U	430.	U	420.	U	400.	U		
208-96-8	Acenaphthylene	420.	U	470.	U	430.	U	420.	U	400.	U		
606-20-2	2,6-Dinitrotoluene	420.	U	470.	U	430.	U	420.	U	400.	U		
99-09-2	3-Nitroaniline	1000.	U	1100.	U	1000.	U	1000.	U	960.	U		
83-32-9	Acenaphthene	420.	U	470.	U	430.	U	420.	U	400.	U		
51-28-5	2,4-Dinitrophenol	1000.	UJ	1100.	UJ	1000.	UJ	1000.	UJ	960.	UJ		
100-02-7	4-Nitrophenol	1000.	UJ	1100.	U	1000.	U	1000.	U	960.	U		
132-64-9	Dibenzofuran	420.	U	470.	U	430.	U	420.	U	400.	U		
121-14-2	2,4-Dinitrotoluene	420.	U	470.	U	430.	U	420.	U	400.	U		
84-66-2	Diethylphthalate	420.	U	470.	U	430.	U	420.	U	400.	U		
7005-72-3	4-Chlorophenylphenylether	420.	U	470.	U	430.	U	420.	U	400.	U		
86-73-7	Fluorene	420.	U	470.	U	430.	U	420.	U	400.	U		
100-01-6	4-Nitroaniline	1000.	U	1100.	U	1000.	U	1000.	U	960.	U		
534-52-1	4,6-Dinitro-2-methylphenol	1000.	UJ	1100.	U	1000.	U	1000.	U	960.	U		
86-30-6	N-Nitrosodiphenylamine	420.	UJ	470.	U	430.	U	420.	U	400.	U		
101-55-3	4-Bromophenylphenylether	420.	U	470.	U	430.	U	420.	U	400.	U		
118-74-1	Hexachlorobenzene	420.	U	470.	U	430.	U	420.	U	400.	U		
87-86-5	Pentachlorophenol	1000.	U	1100.	U	1000.	U	1000.	U	960.	U		
85-01-8	Phenanthrene	420.	U	63.	J	430.	U	420.	U	400.	U		

*** Validation Complete ***

FD1318 SVOA											
	SAMPLE ID ------->	008-S-0004-24		060-S-0002-01		060-S-0002-10		060-S-0002-14		060-S-0003-01	
	ORIGINAL ID ----->	008S000424		060S000201		060S000210		060S000214		060S000301	
	LAB SAMPLE ID --->	116250		116251		116252		116253		116254	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	DATE EXTRACTED -->	02/15/95		02/15/95		02/15/95		02/15/95		02/15/95	
	DATE ANALYZED --->	02/21/95		02/21/95		02/21/95		02/21/95		02/21/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter										
120-12-7	Anthracene	420.	U	470.	U	430.	U	420.	U	400.	U
86-74-8	Carbazole	420.	U	470.	U	430.	U	420.	U	400.	U
84-74-2	Di-n-butylphthalate	420.	U	470.	U	430.	U	420.	U	400.	U
206-44-0	Fluoranthene	420.	U	470.	U	430.	U	420.	U	400.	U
129-00-0	Pyrene	420.	U	470.	U	430.	U	420.	U	400.	U
85-68-7	Butylbenzylphthalate	420.	U	470.	U	430.	U	420.	U	400.	U
91-94-1	3,3'-Dichlorobenzidine	420.	U	470.	U	430.	U	420.	U	400.	U
56-55-3	Benzo(a)anthracene	420.	U	470.	U	430.	U	420.	U	400.	U
218-01-9	Chrysene	420.	U	470.	U	430.	U	420.	U	400.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	420.	UJ	490.	U	430.	U	420.	U	400.	U
117-84-0	Di-n-octylphthalate	420.	U	470.	U	430.	U	420.	U	400.	U
205-99-2	Benzo(b)fluoranthene	420.	U	470.	U	430.	U	420.	U	400.	U
207-08-9	Benzo(k)fluoranthene	420.	U	470.	U	430.	U	420.	U	400.	U
50-32-8	Benzo(a)pyrene	420.	U	470.	U	430.	U	420.	U	400.	U
193-39-5	Indeno(1,2,3-cd)pyrene	420.	U	470.	U	430.	U	420.	U	400.	U
53-70-3	Dibenzo(a,h)anthracene	420.	U	470.	U	430.	U	420.	U	400.	U
191-24-2	Benzo(g,h,i)perylene	420.	U	470.	U	430.	U	420.	U	400.	U
108-95-2	Phenol	420.	UJ	470.	U	430.	U	420.	U	400.	U
111-44-4	bis(2-Chloroethyl)ether	420.	U	470.	U	430.	U	420.	U	400.	U
95-57-8	2-Chlorophenol	420.	U	470.	U	430.	U	420.	U	400.	U
541-73-1	1,3-Dichlorobenzene	420.	U	470.	U	430.	U	420.	U	400.	U
106-46-7	1,4-Dichlorobenzene	420.	U	470.	U	430.	U	420.	U	400.	U
95-50-1	1,2-Dichlorobenzene	420.	U	470.	U	430.	U	420.	U	400.	U
95-48-7	2-Methylphenol (o-Cresol)	420.	U	470.	U	430.	U	420.	U	400.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420.	UJ	470.	U	430.	U	420.	U	400.	U
106-44-5	4-Methylphenol (p-Cresol)	420.	U	470.	U	430.	U	420.	U	400.	U
98-95-3	Nitrobenzene	420.	U	470.	U	430.	U	420.	U	400.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 TOC							
	SAMPLE ID ------->	008-S-DESI-GN	060-S-DESI-GN				
	ORIGINAL ID ----->	008SDESIGN	060SDESIGN				
	LAB SAMPLE ID --->	116323	116237				
	SAMPLE DATE ----->	02/01/95	02/01/95				
	DATE ANALYZED --->	02/20/95	02/20/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	MG/KG A	MG/KG A				
CAS #	Parameter						
9999900-01-4	Total Organic Carbon (TOC)	460.	1200.				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 TOTAL PHOS							
	SAMPLE ID ------->	008-S-DESI-GN	060-S-DESI-GN				
	ORIGINAL ID ----->	008SDESIGN	060SDESIGN				
	LAB SAMPLE ID --->	116323	116237				
	SAMPLE DATE ----->	02/01/95	02/01/95				
	DATE ANALYZED --->	02/09/95	02/09/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	MG/KG A	MG/KG A				
CAS #	Parameter						
9999900-03-5	Phosphorus Total	7200. J	6500.				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 TPH							
	SAMPLE ID ------->	008-S-0001-01	008-S-0001-12	008-S-0001-19	008-S-0002-01	008-S-0002-14	008-C-0002-14
	ORIGINAL ID ----->	008S000101	008S000112	008S000119	008S000201	008S000214	008C000214
	LAB SAMPLE ID --->	116218	116219	116220	116221	116222	116223
	SAMPLE DATE ----->	01/31/95	01/31/95	01/31/95	02/01/95	02/01/95	02/01/95
	DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
	DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	87. U	86. U	79. U	80. U	86. U	81. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 TPH						
SAMPLE ID ------->	008-S-0002-20	008-S-0003-01	008-S-0003-12	008-S-0003-22	008-S-0004-01	008-S-0004-10
ORIGINAL ID ----->	008S000220	008S000301	008S000312	008S000322	008S000401	008S000410
LAB SAMPLE ID --->	116224	116225	116226	116227	116228	116229
SAMPLE DATE ----->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95
DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	82. U	83. U	82. U	83. U	83. U	79. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 TPH						
SAMPLE ID ------->	008-S-0004-24	060-S-0002-01	060-S-0002-10	060-S-0002-14	060-S-0003-01	
ORIGINAL ID ----->	008S000424	060S000201	060S000210	060S000214	060S000301	
LAB SAMPLE ID --->	116230	116231	116234	116235	116236	
SAMPLE DATE ----->	02/01/95	02/01/95	02/01/95	02/01/95	02/01/95	
DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	
DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	81. U	82. U	82. U	81. U	79. U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 VOA	SAMPLE ID ------->	008-S-0001-01		008-S-0001-12		008-S-0001-19		008-S-0002-01		008-S-0002-14		008-C-0002-14	
	ORIGINAL ID ----->	008S000101		008S000112		008S000119		008S000201		008S000214		008C000214	
	LAB SAMPLE ID --->	116238		116239		116240		116241		116242		116243	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		02/01/95		02/01/95		02/01/95	
	DATE ANALYZED --->	02/04/95		02/07/95		02/07/95		02/07/95		02/07/95		02/08/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	13.	U	13.	UJ	12.	UJ	13.	UJ	13.	UJ	13.	U
74-83-9	Bromomethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
75-01-4	Vinyl chloride	13.	U	13.	UJ	12.	UJ	13.	UJ	13.	UJ	13.	U
75-00-3	Chloroethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
75-09-2	Methylene chloride	2.	J	13.	UJ	12.	UJ	13.	UJ	13.	UJ	2.	J
67-64-1	Acetone	19.		18.	J	18.	J	13.	UJ	27.	J	110.	J
75-15-0	Carbon disulfide	13.	U	13.	UJ	12.	UJ	13.	UJ	13.	UJ	13.	U
75-35-4	1,1-Dichloroethene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
75-34-3	1,1-Dichloroethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
67-66-3	Chloroform	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
107-06-2	1,2-Dichloroethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
78-93-3	2-Butanone (MEK)	13.	U	13.	UJ	12.	UJ	13.	UJ	13.	UJ	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
56-23-5	Carbon tetrachloride	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
75-27-4	Bromodichloromethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
78-87-5	1,2-Dichloropropane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	UJ
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	UJ
79-01-6	Trichloroethene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
124-48-1	Dibromochloromethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
71-43-2	Benzene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
75-25-2	Bromoform	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
591-78-6	2-Hexanone	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
127-18-4	Tetrachloroethene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
108-88-3	Toluene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
108-90-7	Chlorobenzene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
100-41-4	Ethylbenzene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
100-42-5	Styrene	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U
1330-20-7	Xylene (Total)	13.	U	13.	U	12.	U	13.	U	13.	U	13.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1318 VOA	SAMPLE ID ------->	008-S-0002-20		008-S-0003-01		008-S-0003-12		008-S-0003-22		008-S-0004-01		008-S-0004-10	
	ORIGINAL ID ----->	008S000220		008S000301		008S000312		008S000322		008S000401		008S000410	
	LAB SAMPLE ID --->	116244		116245		116246		116247		116248		116249	
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95		02/01/95	
	DATE ANALYZED --->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	13.	UJ	13.	UJ	12.	UJ	12.	UJ	12.	UJ	12.	UJ
74-83-9	Bromomethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
75-01-4	Vinyl chloride	13.	UJ	13.	UJ	12.	UJ	12.	UJ	12.	UJ	12.	UJ
75-00-3	Chloroethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
75-09-2	Methylene chloride	13.	UJ	13.	UJ	12.	UJ	12.	UJ	12.	UJ	12.	UJ
67-64-1	Acetone	10.	J	13.	UJ	12.	UJ	12.	UJ	36.	J	12.	UJ
75-15-0	Carbon disulfide	13.	UJ	13.	UJ	12.	UJ	12.	UJ	12.	UJ	12.	UJ
75-35-4	1,1-Dichloroethene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
75-34-3	1,1-Dichloroethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
540-59-0	1,2-Dichloroethene (total)	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
67-66-3	Chloroform	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
107-06-2	1,2-Dichloroethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
78-93-3	2-Butanone (MEK)	13.	UJ	13.	UJ	12.	UJ	12.	UJ	12.	UJ	12.	UJ
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
56-23-5	Carbon tetrachloride	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
75-27-4	Bromodichloromethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
78-87-5	1,2-Dichloropropane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
79-01-6	Trichloroethene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
124-48-1	Dibromochloromethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
71-43-2	Benzene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
75-25-2	Bromoform	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
591-78-6	2-Hexanone	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
127-18-4	Tetrachloroethene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
108-88-3	Toluene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
108-90-7	Chlorobenzene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
100-41-4	Ethylbenzene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
100-42-5	Styrene	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U
1330-20-7	Xylene (Total)	13.	U	13.	U	12.	U	12.	U	12.	U	12.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1318 VOA													
	SAMPLE ID ------->	008-S-0004-24		060-S-0002-01		060-S-0002-10		060-S-0002-14		060-S-0003-01			
	ORIGINAL ID ----->	008S000424		060S000201		060S000210		060S000214		060S000301			
	LAB SAMPLE ID --->	116250		116251		116252		116253		116254			
	SAMPLE DATE ----->	02/01/95		02/01/95		02/01/95		02/01/95		02/01/95			
	DATE ANALYZED --->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter												
74-87-3	Chloromethane	12.	UJ	12.	UJ	13.	U	12.	U	12.	U		
74-83-9	Bromomethane	12.	U	12.	U	13.	U	12.	U	12.	U		
75-01-4	Vinyl chloride	12.	UJ	12.	UJ	13.	U	12.	U	12.	U		
75-00-3	Chloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
75-09-2	Methylene chloride	12.	UJ	12.	UJ	13.	U	1.	J	12.	U		
67-64-1	Acetone	12.	UJ	12.	UJ	13.	U	16.		12.	U		
75-15-0	Carbon disulfide	12.	UJ	12.	UJ	13.	U	12.	U	12.	U		
75-35-4	1,1-Dichloroethene	12.	U	12.	U	13.	U	12.	U	12.	U		
75-34-3	1,1-Dichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	13.	U	12.	U	12.	U		
67-66-3	Chloroform	12.	U	12.	U	13.	U	12.	U	12.	U		
107-06-2	1,2-Dichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
78-93-3	2-Butanone (MEK)	12.	UJ	12.	UJ	13.	U	12.	U	12.	U		
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
56-23-5	Carbon tetrachloride	12.	U	12.	U	13.	UJ	12.	UJ	12.	UJ		
75-27-4	Bromodichloromethane	12.	U	12.	U	13.	U	12.	U	12.	U		
78-87-5	1,2-Dichloropropane	12.	U	12.	U	13.	U	12.	U	12.	U		
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	13.	U	12.	U	12.	U		
79-01-6	Trichloroethene	12.	U	12.	U	13.	U	12.	U	12.	U		
124-48-1	Dibromochloromethane	12.	U	12.	U	13.	U	12.	U	12.	U		
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
71-43-2	Benzene	12.	U	12.	U	13.	U	12.	U	12.	U		
10061-02-6	trans-1,3-Dichloropropene	12.	U	12.	U	13.	U	12.	U	12.	U		
75-25-2	Bromoform	12.	U	12.	U	13.	U	12.	U	12.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	12.	U	13.	U	12.	U	12.	U		
591-78-6	2-Hexanone	12.	U	12.	U	13.	U	12.	U	12.	U		
127-18-4	Tetrachloroethene	12.	U	12.	U	13.	U	12.	U	12.	U		
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
108-88-3	Toluene	12.	U	12.	U	13.	U	12.	U	12.	U		
108-90-7	Chlorobenzene	12.	U	12.	U	13.	U	12.	U	12.	U		
100-41-4	Ethylbenzene	12.	U	12.	U	13.	U	12.	U	12.	U		
100-42-5	Styrene	12.	U	12.	U	13.	U	12.	U	12.	U		
1330-20-7	Xylene (Total)	12.	U	12.	U	13.	U	12.	U	12.	U		

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00339, 95.00340, 95.00368, 95.00369, 95.00415, and 95.00416 (Level IV Validation)
Case Nº:	FD1319

Sample Identification	Matrix
060E013195	Water
060P013195	Water
008E020295	Water
007F020795	Water
060C000301	Soil
060S000310	Soil
060S000314	Soil
007S000101	Soil
007S000109	Soil
007S000114	Soil
007S000201	Soil
007S000208	Soil
007S000218	Soil
007S000225	Soil
060C000301S	Soil
060C000301D	Soil

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INTRODUCTION

This data review report covers 12 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form 10), inter-element corrections (Form 11 A & B) and linear range analysis (Form 12) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field or Trip Blank (µg/L)	Action Level (5x high. blk.)		Associated Samples
				(mg/kg)	(µg/L)		(mg/kg)	(µg/L)	
Barium	2.0					32.4	32.4	162	All
Lead	2.0					2.5	2.5	12.5	All
Silver	3.0	4.0	3.8	0.68	3.4		4.0	20	All
Thallium	2.0		-2.4				2.4	12	All
Tin	15.0	34.1	19.0	3.7	18.5	19.2	34.1	170	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
060C301	Silver Tin	1.3B 5.2B	1.3U 5.2U
060S310	Tin	7.2B	7.2U
060S314	Tin	12.3B	12.3U
007S101	Tin	5.7B	5.7U
007S109	Silver	0.85B	0.85U
007S114	Silver Tin	1.3B 5.1B	1.3U 5.1U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

Analytes that are not present in the ICS solution but has an absolute value > IDL are as follow:

Date	Element	ICSAI Result (µg/L)	ICSF Result (µg/L)	IDL (µg/L)	Samples Affected	Flag
02/24/95	Barium	22	25	2.0	None	None
	Cadmium	29	29	3.0	None	None
	Chromium	-5	-10	5.0	None	None
	Copper	16	16	5.0	None	None
	Silver	6	6	3.0	None	None
	Vanadium	-10	-12	4.0	None	None
	Zinc	31	32	5.0	None	None

No samples were affected since levels of Aluminum, Iron, Calcium and Magnesium were less than that in ICS.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Sample	Analyte	MS %R (Limit)	Associated Samples	Flag
060C000301	Antimony	42.9 (75-125%)	All	J(detect)/UJ(non-detect)
	Arsenic	66.5 (75-125%)		J(detect)/UJ(non-detect)
	Lead	48.5 (75-125%)		J(detect)/UJ(non-detect)
	Silver	60.8 (75-125%)		J(detect)/UJ(non-detect)

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within 20.0%.

The analytical spike recoveries were within QC limit of 85-115%.

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

Sample results were accurately transposed.

Calculated results were the same as the reported results.

XI. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1319

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1319	All	Antimony Arsenic Lead Silver	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Matrix spike %R
FD1319	060C301	Silver Tin	U U	Blank contamination
FD1319	060S310	Tin	U	Blank contamination
FD1319	060S314	Tin	U	Blank contamination
FD1319	007S101	Tin	U	Blank contamination
FD1319	007S109	Silver	U	Blank contamination
FD1319	007S114	Silver Tin	U U	Blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00339, 95.00340, 95.00368, 95.00369, 95.00415, and 95.00416 (Level IV Validation)
Case Nº:	FD1319

Sample Identification	Matrix
007F020795	Water
007T020795	Water
008E020295	Water
008T020295	Water
060E013195	Water
060P013195	Water
007S000101	Soil
007S000109	Soil
007S000114	Soil
007S000201	Soil
007S000208	Soil
007S000218	Soil
007S000225	Soil
060C000301	Soil
060S000310	Soil
060S000314	Soil

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INTRODUCTION

This data review report covers 10 soil samples and 6 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/01/95 12:21	HP5970L	Acetone	32.3 (≤30.0%)	060C000301 060S000310 060S000314 007S000101 007S000201 007S000208 007S000114 007S000218 007S000109 007S000225	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/06/95 14:10	HP5970L	Acetone 2-Butanone 2-Hexanone	47.8 (±25.0%) 41.1 (±25.0%) 27.2 (±25.0%)	060C000301 060S000310 060S000314	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/17/95 09:30	HP5970L	Acetone 1,1-Dichloroethene 2-Butanone Carbon Tetrachloride 2-Hexanone	42.0 (±25.0%) -25.4 (±25.0%) 29.7 (±25.0%) 34.0 (±25.0%) 32.7 (±25.0%)	007S000101 007S000201	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/18/95 13:58	HP5970L	Acetone	29.7 (±25.0%)	007S000208	J(detect)/UJ(non-detect)

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/19/95 09:09	HP5970L	Acetone	55.8 (±25.0%)	007S000114	J(detect)/UJ(non-detect)
		2-Butanone	49.0 (±25.0%)	007S000218	J(detect)/UJ(non-detect)
		Bromoform	34.3 (±25.0%)		J(detect)/UJ(non-detect)
		4-Methyl-2-pentanone	42.2 (±25.0%)		J(detect)/UJ(non-detect)
		2-Hexanone	44.5 (±25.0%)		J(detect)/UJ(non-detect)
		1,1,2,2-Tetrachloroethane	33.3 (±25.0%)		J(detect)/UJ(non-detect)
02/20/95 14:36	HP5970L	Acetone	39.1 (±25.0%)	007S000109	J(detect)/UJ(non-detect)
		2-Butanone	28.5 (±25.0%)	007S000225	J(detect)/UJ(non-detect)
		Carbon Tetrachloride	33.7 (±25.0%)		J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level (µg/kg)		Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
				5 x	10 x			
02/17/95	VBLK021795L	Bromomethane	1J	5		007S000101	2BJY	12U
02/17/95	VBLK021795L	Bromomethane	1J	5		007S000201	2BJ	12U
02/20/95	VBLK022095L	Acetone	8J		80	007S000225	14BY	14U
02/18/95	VBLK021895L	Acetone	6J		60	007S000208	47BY	47U

The field blank analyses were performed at required frequencies. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated. Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms and mass spectra in every sample and blank were examined to verify the reported TIC. Their quantitations were reported according to SW846. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1319

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1319	060C000301 060S000310 060S000314 007S000101 007S000201 007S000208 007S000114 007S000218 007S000109 007S000225	Acetone	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1319	060C000301 060S000310 060S000314	Acetone 2-Butanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000101 007S000201	Acetone 1,1-Dichloroethene 2-Butanone Carbon Tetrachloride 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000208	Acetone	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000114 007S000218	Acetone 2-Butanone Bromoform 4-Methyl-2-pentanone 2-Hexanone 1,1,2,2-Tetrachloroethane	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000109 007S000225	Acetone 2-Butanone Carbon Tetrachloride	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000101 007S000201	Bromomethane	12U 12U	Method blank contamination
FD1319	007S000208	Acetone	47U	Method blank contamination
FD1319	007S000225	Acetone	14U	Method blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00339, 95.00340, 95.00368, 95.00369, 95.00415, and 95.00416 (Level IV Validation)
Case Nº:	FD1319

Sample Identification	Matrix
007F020795	Water
007S000101	Soil
007S000109	Soil
007S000114	Soil
007S000201	Soil
007S000208	Soil
007S000218	Soil
007S000225	Soil
008E020295	Water
060C000301	Soil
060S000310	Soil
060S000314	Soil
060E013195	Water
060P013195	Water

Sample ID #s for 060S000314 and 060S000310 as appeared on C-O-C and EDD's were erroneously identified as 060C000314 and 060C000310 respectively in the data package.

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INTRODUCTION

This data review report covers 10 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/21/95 09:13	HP5970F	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	43.7 (≤30%) 30.6 (≤30%)	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225 060C000301 060S000310 060S000314	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/21/95 14:00	HP5970F	2,4-Dinitrophenol	26.6 (≤25.%)	060C000301 060S000310 060S000314	J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualification are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
02/21/95	SBLK021595F	Di-N-Butylphthalate Bis(2-ethylhexyl)phthalate	480 34J	4800 340	060C000301	400U 55BJ	None 400U
		Di-N-Butylphthalate Bis(2-ethylhexyl)phthalate			060S000310	420U 220BJ	None 420U
		Di-N-Butylphthalate Bis(2-ethylhexyl)phthalate			060S000314	430U 93BJ	None 430U
02/21/95	SBLK021795F	Di-N-Butylphthalate	420	4200	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	390U 410U 400U 380U 380U 390U 370U	None None None None None None None

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualification are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level 10 x (µg/L)	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
02/15/95	00E020295	Bis(2-ethylhexyl)phthalate	4J	40	None		None
02/10/95	060P013195	Bis(2-ethylhexyl)phthalate	3J	30	060C000301 060S000310 060S000314	55BJ 220BJ 93BJ	400U 420U 430U

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846. All surrogate spike recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated. Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms and mass spectra in every sample and blank were examined to verify the reported TIC. Their quantitations were reported acccording to SW846. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1319

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1319	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225 060C000301 060S000310 060S000314	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1319	060C000301 060S000310 060S000314	2,4-Dinitrophenol	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	060P013195 060C000301 060S000310 060S000314	Bis(2-ethylhexyl)phthalate	400U 420U 430U	Blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00339, 95.00340, 95.00368, 95.00369, 95.00415, 95.00416 (Level IV Validation)
Case Nº:	FD1319

Sample Identification	Matrix
007S000101	Soil
007S000109	Soil
007S000114	Soil
007S000201	Soil
007S000208	Soil
007S000218	Soil
007S000225	Soil
060C000301	Soil
060S000310	Soil
060S000314	Soil
007F020795	Water
008E020295	Water
060E013195	Water
060P013195	Water

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INTRODUCTION

This data review report covers 10 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit except for the following:

Date/ Time	Standard	Compound	%D XT15 Column	%D RTX35 Column	QC Limit	Associated Samples	Flag
02/26/95 17:54	INDBM03	Endrin aldehyde	-15.05	-17.19	±15.0%	060C000301 060S000310 060S000314 007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	J(detect)/UJ(non-detect)
02/27/95 01:51	INDBM04	Endrin aldehyde	-17.15	-17.42	±15.0%	007S000114 007S000201 007S000208 007S000218 007S000225	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency. RT windows were all within QC limit.

No contaminant was found in the instrument blanks that resulted in data qualifications.

The method blanks were extracted and performed according to the SW846. No contaminant was found in the method blanks that resulted in data qualifications.

The field blanks were extracted and performed according to the SW846. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

No laboratory control samples were analyzed for this SDG.

IX. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were properly identified except for the following compounds which were found to be misidentified and the appropriate actions were recommended:

Sample	Compound	Column	RT (Window)	%D (QC Limit)	Flag
007S000201	Heptachlor epoxide	N/A	N/A	135.7 (±30.0%)	J(detect)

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

On form ID, the volume of the concentrated extract was erroneously listed as 5 ml. Tthe correct value was 10 ml as listed in the extraction log.

XII. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1319

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1319	060C000301	Endrin aldehyde	J(detect)/UJ(non-detect)	Verification calibration %D
	060S000310			Verification calibration %D
	060S000314			Verification calibration %D
	007S000101			Verification calibration %D
	007S000109			Verification calibration %D
	007S000114			Verification calibration %D
	007S000201			Verification calibration %D
	007S000208			Verification calibration %D
	007S000218			Verification calibration %D
	007S000225			Verification calibration %D
FD1319	007S000201	Heptachlor epoxide	J(detect)	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.0039, 95.0040, 95.00368, 95.00369, 95.00415, and 95.00416 (Level IV Validation)
Case Nº:	FD1319

Sample Identification	Matrix
007F020795	Water
007S000101	Soil
007S000109	Soil
007S000114	Soil
007S000201	Soil
007S000208	Soil
007S000218	Soil
007S000225	Soil
008E020295	Water
060C000301	Soil
060C000301RE	Soil
060E013195	Water
060R013195RE	Water
060P013195	Water
060S000310	Soil
060S000314	Soil
060S000314RE	Soil

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INTRODUCTION

This data review report covers 12 soil samples and 5 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were not met for this SDG, thus the data were qualified as follows:

Sample	Matrix	Out of Limit Extraction Holding Time / QC Limit	Flag
060C000301RE	Soil	36/14	J(detect)/UJ(non-detect)
060S000314RE	Soil	36/14	J(detect)/UJ(non-detect)

060C000301, 060E013195, and 060S000314 were re-extracted due to poor or no surrogate recovery. Re-extraction holding time was outside QC limits.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/24/95 19:27	RF10X RF1X RF20X RF2X RF4X	MCPP MCPA 2,4,5-T 2,4-DB	31.7 28.7 35.4 43.7	≤20% ≤20% ≤20% ≤20%	060C000301 060S000310 060S000314	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/28/95 17:57	RF10X RF1X RF20X RF2X RF4X	MCPA 2,4,5-T	21.4 25.8	≤20% ≤20% ≤20% ≤20% ≤20% ≤20% ≤20%	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/14/95 21:42	RF10X RF1X RF20X RF2X RF4X	Dinoseb	40.3	≤20% ≤20%	060C000301RE 060S000314RE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D Primary Column	QC Limit	Associated Samples	Flag
02/25/95 15:01	RF4X	Dicamba	-22.5	≤15	060C000301	J(detect)/UJ(non-detect)
		MCPA	-29.7	≤15	060S000310	J(detect)/UJ(non-detect)
		Dichloroprop	-21.0	≤15	060S000314	J(detect)/UJ(non-detect)
		2,4-D	-18.7	≤15		J(detect)/UJ(non-detect)
		Dinoseb	-24.2	≤15		J(detect)/UJ(non-detect)
02/25/95 24:47	RF4X	Dicamba	-32.2	≤15	060C000301	J(detect)/UJ(non-detect)
		MCPA	-20.7	≤15	060S000310	J(detect)/UJ(non-detect)
		Dichloroprop	-26.0	≤15	060S000314	J(detect)/UJ(non-detect)
		2,4-D	-24.3	≤15		J(detect)/UJ(non-detect)
		Silvex	-24.8	≤15		J(detect)/UJ(non-detect)
		2,4,5-T	-21.4	≤15		J(detect)/UJ(non-detect)
		Dinoseb	-27.1	≤15		J(detect)/UJ(non-detect)
03/01/95 11:25	RF4X	2,4-DB	-27.0	≤15	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency. No contaminant was found in the instrument blanks that resulted in data qualifications.

The method blanks were extracted and performed according to the SW846. No contaminant was found in the method blanks that resulted in data qualifications.

The field blanks were extracted and performed according to the SW846. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Surrogate Spike Compound	%R Primary Column	Advisory Limit	Compounds Affected	Flag
060C000301	DCAA	22	(40-115%)	All compounds	J(detect)/UJ(non-detect)
060S000314	DCAA	2	(40-115%)	All compounds	J(detect)/R(non-detect)
060S000314RE	DCAA	119	(40-115%)	All compounds	J(detect)/None(non-detect)
007S000114	DCAA	127	(40-115%)	All compounds	J(detect)/None(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/15/95	HLCS0310S	RTX35	Dinoseb	0.00 (10-150)	0.00 (23.90-24)	060C000301RE 060S000314RE	J(detect)/R(non-detect)
02/25/95	LCS0215S	RTX5	Silvex	1757.78 (10-150)		060C000301 060C000310 060C000314	J(detect)/None(non-detect)
03/01/95	LCS0218S	RTX35	Dinoseb	1.18 (10-150)		007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	J(detect)/UJ(non-detect)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected except for the following:

Sample	Compound	Column	RT (Window)	%D (QC Limit)	Flag
007S000114	2,4-D	RTX35		241.2 ($\leq$25%)	J(detect)

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XII. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XIII. OVERALL ASSESSMENT OF DATA

Based on the overall amount of usable data used between the original samples and re-extracted samples, the results of the original samples should be used for sample 060C000301. For samples 060S000314 and 060E13195 results of the re-extracted samples should be used.

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1319

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1319	060C000301RE 060S000314RE	All compounds	J(detect)/UJ(non-detect)	Holding time violation
FD1319	060C000301 060S000310 060S000314	MCPP MCPA 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1319	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	MCPA 2,4,5-T	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1319	060C000301RE 060S000314RE	Dinoseb	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1319	060C000301 060S000310 060S000314	Dicamba MCPA Dichloroprop 2,4-D Dinoseb Silvex 2,4,5-T	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	2,4-DB	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	060C000301	All compounds	J(detect)/UJ(non-detect)	Surrogate spike %R
FD1319	060S000314	All compounds	J(detect)/R(non-detect)	Surrogate spike %R
FD1319	060S000314RE	All compounds	J(detect)/None(non-detect)	Surrogate spike %R
FD1319	007S000114	All compounds	J(detect)/None(non-detect)	Surrogate spike %R
FD1319	060C000301RE 060S000314RE	Dinoseb	J(detect)/R(non-detect)	Laboratory control sample %R
FD1319	007S000101 007S000109 007S000114 007S000201 007S000208 007S000218 007S000225	Dinoseb	J(detect)/None(non-detect)	Laboratory control sample %R
FD1319	060C000301 060C000310 060C000314	Silvex	J(detect)/UJ(non-detect)	Laboratory control sample %R
FD1319	007S000114	2,4-D	J(detect)	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00339, 95.00340, 95.00368, 95.00369, 95.00415, and 95.00416 (Level IV Validation)
Case Nº:	FD1319

Sample Identification	Matrix
007F020795	Water
007S000101	Soil
007S000109	Soil
007S000114	Soil
007S000201	Soil
007S000208	Soil
007S000218	Soil
007S000225	Soil
008E020295	Water
060C000301	Soil
060E013195	Water
060P013195	Water
060S000310	Soil
060S000314	Soil

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INTRODUCTION

This data review report covers 10 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs of the primary column for calibration factors of single component analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/22/95 20:40	RF250	Mevinphos, alpha	22.7	≤20%	All	J(detect)/UJ(non-detect)
	RF500	Fensulfothion	31.4	≤20%		J(detect)/UJ(non-detect)
	RF1000	Guthion	70.3	≤20%		J(detect)/UJ(non-detect)
	RF2000	Coumaphos	36.1	≤20%		J(detect)/UJ(non-detect)
	RF4000					

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds of the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D RTX35 Column	%D RTX5 Column	QC Limit	Associated Samples	Flag
02/27/95 22:11	RF1000	Dichlorvos	22.9		≤15%	060C000301	J(detect)/UJ(non-detect)
		Mevinphos, alpha	18.5		≤15%	060S000310	J(detect)/UJ(non-detect)
		Stirophos	31.4		≤15%	060S000314	J(detect)/UJ(non-detect)
		Guthion	-27.7		≤15%	007S000101	J(detect)/UJ(non-detect)
		Coumaphos	-49.2		≤15%	007S000109	J(detect)/UJ(non-detect)
		Merphos		-42.2	≤15%		J(detect)/UJ(non-detect)
02/28/95 15:47	RF1000	Dichlorvos	17.3		≤15%	060C000301	J(detect)/UJ(non-detect)
		Demeton, o	40.2		≤15%	060S000310	J(detect)/UJ(non-detect)
		Demeton, s	17.1		≤15%	060S000314	J(detect)/UJ(non-detect)
		Methyl parathion	159.6		≤15%	007S000101	J(detect)/UJ(non-detect)
		Ronnel	241.2		≤15%	007S000109	J(detect)/UJ(non-detect)
		Chlorpyrifos	76.3		≤15%	007S000208	J(detect)/UJ(non-detect)
		Tokuthion	16.5		≤15%	007S000218	J(detect)/UJ(non-detect)
		Fensulfothion	46.3		≤15%	007S000225	J(detect)/UJ(non-detect)
		Sulprofos	-45.4		≤15%	007S000201	J(detect)/UJ(non-detect)
		Guthion	-287.9		≤15%		J(detect)/UJ(non-detect)
		Coumaphos	-226.9		≤15%		J(detect)/UJ(non-detect)
		Merphos		-98.3	≤15%		J(detect)/UJ(non-detect)
03/01/95 10:42	RF1000	Dichlorvos	47.5		≤15%	007S000208	J(detect)/UJ(non-detect)
		Mevinphos, alpha	40.7		≤15%	007S000218	J(detect)/UJ(non-detect)
		Naled	23.7		≤15%	007S000225	J(detect)/UJ(non-detect)
		Demeton, s	-157.7		≤15%	007S000201	J(detect)/UJ(non-detect)
		Diazinon	26.9		≤15%	007S000114	J(detect)/UJ(non-detect)
		Ronnel	17.3		≤15%		J(detect)/UJ(non-detect)
		Chlorpyrifos	15.8		≤15%		J(detect)/UJ(non-detect)
		Fensulfothion	-51.6		≤15%		J(detect)/UJ(non-detect)
		Stirophos	31.4		≤15%		J(detect)/UJ(non-detect)
		Guthion	-126.4		≤15%		J(detect)/UJ(non-detect)
		Coumaphos	-148		≤15%		J(detect)/UJ(non-detect)

Date/ Time	Standard	Compound	%D RTX35 Column	%D RTX5 Column	QC Limit	Associated Samples	Flag
/01/95 16:15	RF1000	Demeton, o	-41.1		≤15%	007S000114	J(detect)/UJ(non-detect)
		Ethoprop	-18.7		≤15%		J(detect)/UJ(non-detect)
		Naled	18.6		≤15%		J(detect)/UJ(non-detect)
		Phorate	-18.5		≤15%		J(detect)/UJ(non-detect)
		Demeton, s	-25.3		≤15%		J(detect)/UJ(non-detect)
		Disulfoton	-15.8		≤15%		J(detect)/UJ(non-detect)
		Methyl parathion	-25.4		≤15%		J(detect)/UJ(non-detect)
		Ronnel	-17.3		≤15%		J(detect)/UJ(non-detect)
		Fenthion	-20.3		≤15%		J(detect)/UJ(non-detect)
		Trichloronate	-20.2		≤15%		J(detect)/UJ(non-detect)
		Tokuthion	-24.4		≤15%		J(detect)/UJ(non-detect)
		Fensulfothion	-30.4		≤15%		J(detect)/UJ(non-detect)
		Sulprofos	-25.5		≤15%		J(detect)/UJ(non-detect)
		Guthion	-60.4		≤15%		J(detect)/UJ(non-detect)
		Coumaphos	-81.4		≤15%		J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination that resulted in data validation.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination that resulted in data validation.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination that resulted in data validation.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following that required data qualification:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Affected Samples	Flag
02/27/95	NLCS10214S	RTX35 RTX5	Stirophos Merphos	40 (50-150%) 0.0 (50-150%)	0.0 (32.67-32.87)	060C000301 060S000310 060S000314 007S000101 007S000109 007S000208 007S000218 007S000225 007S000201 007S000114	J(detect)/UJ(non-detect) J(detect)/R(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XI. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1319

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1319	All	Mevinphos, alpha Fensulfothion Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1319	060C000301 060S000310 060S000314 007S000101 007S000109	Dichlorvos Mevinphos, alpha Stirophos Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	060C000301 060S000310 060S000314 007S000101 007S000109 007S000208 007S000218 007S000225 007S000201	Dichlorvos Demeton, o Demeton, s Methyl parathion Ronnel Chloropyrifos Tokuthion Fensulfothion Sulprofos Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000208 007S000218 007S000225 007S000201 007S000114	Dichlorvos Mevinphos, alpha Naled Demeton, s Diazinon Ronnel Chloropyrifos Fensulfothion Stirophos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	007S000114	Demeton, o Ethoprop Naled Phorate Demeton, s Disulfoton Methyl parathion Ronnel Fenthion Trichloronate Tokuthion Fensulfothion Sulprofos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1319	060C000301 060S000310 060S000314 007S000101 007S000109 007S000208 007S000218 007S000225 007S000201 007S000114	Stirophos Merphos	J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00339, 95.00340, 95.00368, 95.00369, 95.00415, & 95.00416 (Level III Validation)
Case Nº:	FD1319

Sample Identification	Matrix
060E013195	Water
060P013195	Water
008E020295	Water
007F020795	Water
060C000301	Soil
060S000310	Soil
060S000314	Soil
007S000101	Soil
007S000109	Soil
007S000114	Soil
007S000201	Soil
007S000208	Soil
007S000218	Soil
007S000225	Soil

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INTRODUCTION

This data review report covers 10 soil samples and 4 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within $\pm$15.0 percent.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blanks.

The field blank analyses were performed at required frequencies. No contaminant was found in the field blanks.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed in this SDG.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1319

No data were qualified for this SDG.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 HERB													
	SAMPLE ID ------->	007-S-0001-01		007-S-0001-09		007-S-0001-14		007-S-0002-01		007-S-0002-08		007-S-0002-18	
	ORIGINAL ID ----->	007S000101		007S000109		007S000114		007S000201		007S000208		007S000218	
	LAB SAMPLE ID --->	116457		116458		116459		116460		116461		116462	
	SAMPLE DATE ----->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE EXTRACTED -->	02/14/95		02/14/95		02/14/95		02/14/95		02/14/95		02/14/95	
	DATE ANALYZED --->	02/28/95		02/28/95		03/01/95		03/01/95		02/28/95		02/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ
88-85-7	Dinoseb	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ
93-76-5	2,4,5-T	0.95	UJ	0.94	UJ	0.95	UJ	0.95	UJ	0.95	UJ	0.95	UJ
93-72-1	2,4,5-TP (Silvex)	0.95	U	0.94	U	0.95	U	0.95	U	0.95	U	0.95	U
75-99-0	Dalapon	23.	U	23.	U	23.	U	23.	U	23.	U	23.	U
1918-00-9	Dicamba	0.94	U	0.94	U	0.94	U	0.94	U	0.94	U	0.94	U
120-36-5	Dichlorprop	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	940.	U	940.	U	940.	U	940.	U	940.	U	940.	U
94-75-7	2,4-D	9.4	U	9.4	U	120.	J	9.4	U	9.4	U	9.4	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 HERB											
	SAMPLE ID ------->	007-S-0002-25		060-C-0003-01		060-S-0003-10		060-S-0003-14			
	ORIGINAL ID ----->	007S000225		060C000301		060S000310		060S000314RE			
	LAB SAMPLE ID --->	116463		116263		116264		116265RE			
	SAMPLE DATE ----->	02/07/95		02/01/95		02/01/95		02/01/95			
	DATE EXTRACTED -->	02/14/95		02/14/95		02/14/95		03/10/95			
	DATE ANALYZED --->	02/28/95		02/28/95		02/28/95		03/15/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter										
94-82-6	2,4-DB	9.5	UJ	0.95	UJ	12.	UJ	0.95	UJ		
88-85-7	Dinoseb	4.7	UJ	4.7	UJ	5.9	UJ	4.7	UR		
93-76-5	2,4,5-T	0.95	UJ	0.95	UJ	1.2	UJ	0.95	UJ		
93-72-1	2,4,5-TP (Silvex)	0.95	U	0.95	UJ	1.2	UJ	0.95	UJ		
75-99-0	Dalapon	23.	U	23.	UJ	28.	U	23.	UJ		
1918-00-9	Dicamba	0.94	U	0.94	UJ	1.2	UJ	0.94	UJ		
120-36-5	Dichlorprop	9.4	U	9.4	UJ	12.	UJ	9.4	UJ		
94-74-6	MCPA	940.	UJ	940.	UJ	1200.	UJ	940.	UJ		
93-65-2	MCPP	940.	U	940.	UJ	1200.	UJ	940.	UJ		
94-75-7	2,4-D	9.4	U	9.4	UJ	12.	UJ	9.4	UJ		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 METAL													
	SAMPLE ID ------->	007-S-0001-01		007-S-0001-09		007-S-0001-14		007-S-0002-01		007-S-0002-08		007-S-0002-18	
	ORIGINAL ID ----->	007S000101		007S000109		007S000114		007S000201		007S000208		007S000218	
	LAB SAMPLE ID --->	6-116465S		6-116466S		6-116467S		6-116468S		6-116469S		6-116470S	
	SAMPLE DATE ----->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	10.	UJ	10.4	UJ	9.9	UJ	9.7	UJ	10.1	UJ	10.	UJ
AS	Arsenic	10.4	J	7.8	J	4.6	J	7.9	J	3.	J	6.7	J
BA	Barium	92.5		100.		88.4		113.		70.2		71.	
BE	Beryllium	0.59	J	0.43	J	0.55	J	0.48	J	0.46	J	0.79	J
CD	Cadmium	3.		2.5		2.		2.4		21.4		2.6	
CR	Chromium	12.7		11.8		14.7		11.3		21.3		15.5	
CO	Cobalt	9.8	J	7.5	J	9.5	J	7.4	J	6.7	J	6.8	J
CU	Copper	22.5		17.1		14.2		15.2		13.9		14.9	
PB	Lead	67.7	J	14.7	J	9.1	J	17.4	J	12.6	J	13.5	J
HG	Mercury	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
NI	Nickel	18.5		16.6		15.2		14.4		15.4		12.7	
SE	Selenium	0.55	J	0.52	U	0.5	U	0.48	U	0.5	U	0.5	U
AG	Silver	0.75	UJ	0.85	UJ	1.3	UJ	0.72	UJ	0.76	UJ	0.75	UJ
TL	Thallium	0.5	U	0.52	U	0.5	U	0.48	U	0.5	U	0.5	U
V	Vanadium	28.9		22.4		27.8		21.4		24.7		30.3	
ZN	Zinc	63.9		51.3		39.6		56.		73.1		35.6	
SN	Tin	5.7	U	3.9	U	5.1	U	3.6	U	3.8	U	3.7	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1319 METAL													
	SAMPLE ID ------->	007-S-0002-25		060-C-0003-01		060-S-0003-10		060-S-0003-14					
	ORIGINAL ID ----->	007S000225		060C000301		060S000310		060S000314					
	LAB SAMPLE ID --->	6-116471S		0-116268S		0-116269S		0-116270S					
	SAMPLE DATE ----->	02/07/95		02/01/95		02/01/95		02/01/95					
	MATRIX ---------->	Soil		Soil		Soil		Soil					
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A				
CAS #	Parameter												
SB	Antimony	9.4	UJ	9.6	UJ	10.1	UJ	10.5	UJ				
AS	Arsenic	2.3	J	11.7	J	8.2	J	3.6	J				
BA	Barium	46.3	J	63.5		80.9		45.2	J				
BE	Beryllium	0.43	J	0.45	J	0.36	J	0.34	J				
CD	Cadmium	1.1	J	3.1		2.1		1.4					
CR	Chromium	8.3		16.8		11.8		10.7					
CO	Cobalt	5.3	J	5.8	J	6.7	J	6.	J				
CU	Copper	7.5		14.1		13.8		14.					
PB	Lead	6.3	J	13.7	J	9.9	J	8.8	J				
HG	Mercury	0.11	U	0.11	U	0.12	U	0.12	U				
NI	Nickel	8.	J	11.4		16.		12.					
SE	Selenium	0.47	U	0.48	J	0.5	U	0.77	J				
AG	Silver	0.71	UJ	1.3	UJ	0.75	UJ	0.79	UJ				
TL	Thallium	0.47	U	0.48	U	0.5	U	0.52	U				
V	Vanadium	20.		34.9		18.7		16.7					
ZN	Zinc	17.7		48.		42.		37.1					
SN	Tin	3.5	U	5.2	U	7.2	U	12.3	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 METAL-CN						
SAMPLE ID ------->	007-S-0001-01	007-S-0001-09	007-S-0001-14	007-S-0002-01	007-S-0002-08	007-S-0002-18
ORIGINAL ID ----->	007S000101	007S000109	007S000114	007S000201	007S000208	007S000218
LAB SAMPLE ID --->	116465	116466	116467	116468	116469	116470
SAMPLE DATE ----->	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95
DATE EXTRACTED -->	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95
DATE ANALYZED --->	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.59 U	0.63 U	0.56 U	0.6 U	0.61 U	0.59 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 METAL-CN							
	SAMPLE ID ------->	007-S-0002-25	060-C-0003-01	060-S-0003-10	060-S-0003-14		
	ORIGINAL ID ----->	007S000225	060C000301	060S000310	060S000314		
	LAB SAMPLE ID --->	116471	116268	116269	116270		
	SAMPLE DATE ----->	02/07/95	02/01/95	02/01/95	02/01/95		
	DATE EXTRACTED -->	02/15/95	02/06/95	02/06/95	02/06/95		
	DATE ANALYZED --->	02/17/95	02/13/95	02/13/95	02/13/95		
	MATRIX ---------->	Soil	Soil	Soil	Soil		
	UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A		
CAS #	Parameter						
CN	Cyanide	0.58 U	0.6 U	0.63 U	0.66 U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 OP PEST													
	SAMPLE ID ------->	007-S-0001-01		007-S-0001-09		007-S-0001-14		007-S-0002-01		007-S-0002-08		007-S-0002-18	
	ORIGINAL ID ----->	007S000101		007S000109		007S000114		007S000201		007S000208		007S000218	
	LAB SAMPLE ID --->	116457		116458		116459		116460		116461		116462	
	SAMPLE DATE ----->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE EXTRACTED -->	02/14/95		02/14/95		02/14/95		02/14/95		02/14/95		02/14/95	
	DATE ANALYZED --->	02/28/95		02/28/95		03/01/95		03/01/95		02/28/95		02/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	280.	J	210.	UJ	210.	UJ	200.	UJ	210.	UJ	210.	UJ
35400-43-2	Sulprofos	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
2921-88-2	Chloropyrifos	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
56-72-4	Coumaphos	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
8065-48-3	Demeton,O	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
333-41-5	Diazinon	100.	U	110.	U	100.	UJ	100.	UJ	100.	UJ	100.	UJ
62-73-7	Dichlorvos	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
298-04-4	Disulfoton	100.	U	110.	U	100.	UJ	100.	U	100.	U	100.	U
13194-48-4	Ethoprop	100.	U	110.	U	100.	UJ	100.	U	100.	U	100.	U
115-90-2	Fensulfothion	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
55-38-9	Fenthion	100.	U	110.	U	100.	UJ	100.	U	100.	U	100.	U
150-50-5	Merphos	100.	UR	110.	UR	100.	UR	100.	UR	100.	UR	100.	UR
7786-34-7	Mevinphos, Alpha	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
300-76-5	Naled	100.	U	110.	U	100.	UJ	100.	UJ	100.	UJ	100.	UJ
298-00-0	Methyl parathion	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
298-02-2	Phorate	100.	U	110.	U	100.	UJ	100.	U	100.	U	100.	U
299-84-3	Ronnel	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
34643-46-4	Tokuthion	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ
327-98-0	Trichloronate	100.	U	110.	U	100.	UJ	100.	U	100.	U	100.	U
126-75-0	Demeton,S	100.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	100.	UJ

*** Validation Complete ***

FD1319 OP PEST													
	SAMPLE ID ------->	007-S-0002-25		060-C-0003-01		060-S-0003-10		060-S-0003-14					
	ORIGINAL ID ----->	007S000225		060C000301		060S000310		060S000314					
	LAB SAMPLE ID --->	116463		116263		116264		116265					
	SAMPLE DATE ----->	02/07/95		02/01/95		02/01/95		02/01/95					
	DATE EXTRACTED -->	02/14/95		02/14/95		02/14/95		02/14/95					
	DATE ANALYZED --->	02/28/95		02/28/95		02/28/95		02/28/95					
	MATRIX ---------->	Soil		Soil		Soil		Soil					
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A				
CAS #	Parameter												
86-50-0	Guthion	200.	UJ	200.	UJ	210.	UJ	210.	UJ				
35400-43-2	Sulprofos	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
2921-88-2	Chloropyrifos	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
56-72-4	Coumaphos	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
8065-48-3	Demeton,O	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
333-41-5	Diazinon	100.	UJ	99.	U	110.	U	110.	U				
62-73-7	Dichlorvos	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
298-04-4	Disulfoton	100.	U	99.	U	110.	U	110.	U				
13194-48-4	Ethoprop	100.	U	99.	U	110.	U	110.	U				
115-90-2	Fensulfothion	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
55-38-9	Fenthion	100.	U	99.	U	110.	U	110.	U				
150-50-5	Merphos	100.	UR	99.	UR	110.	UR	110.	UR				
7786-34-7	Mevinphos, Alpha	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
300-76-5	Naled	100.	UJ	99.	U	110.	U	110.	U				
298-00-0	Methyl parathion	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
298-02-2	Phorate	100.	U	99.	U	110.	U	110.	U				
299-84-3	Ronnel	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
34643-46-4	Tokuthion	100.	UJ	99.	UJ	110.	UJ	110.	UJ				
327-98-0	Trichloronate	100.	U	99.	U	110.	U	110.	U				
126-75-0	Demeton,S	100.	UJ	99.	UJ	110.	UJ	110.	UJ				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 PEST																	
	SAMPLE ID ------->	007-S-0001-01			007-S-0001-09			007-S-0001-14			007-S-0002-01			007-S-0002-08			007-S-0002-18		
	ORIGINAL ID ----->	007S000101			007S000109			007S000114			007S000201			007S000208			007S000218		
	LAB SAMPLE ID --->	116465			116466			116467			116468			116469			116470		
	SAMPLE DATE ----->	02/07/95			02/07/95			02/07/95			02/07/95			02/07/95			02/07/95		
	DATE EXTRACTED -->	02/19/95			02/19/95			02/19/95			02/19/95			02/19/95			02/19/95		
	DATE ANALYZED --->	02/26/95			02/26/95			02/26/95			02/26/95			02/26/95			02/26/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A	UG/KG		A
CAS #	Parameter																		
319-84-6	alpha-BHC	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
319-85-7	beta-BHC	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
319-86-8	delta-BHC	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
58-89-9	gamma-BHC (Lindane)	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
76-44-8	Heptachlor	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
309-00-2	Aldrin	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
1024-57-3	Heptachlor epoxide	3.5	U		3.6	U		2.8	U		14.	J		3.2	U		2.5	U	
959-98-8	Endosulfan I	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
60-57-1	Dieldrin	7.			7.	U		5.5	U		5.	U		6.2	U		4.9	U	
72-55-9	4,4'-DDE	6.7	U		7.	U		5.5	U		12.			6.2	U		4.9	U	
72-20-8	Endrin	6.7	U		7.	U		5.5	U		5.	U		6.2	U		4.9	U	
33213-65-9	Endosulfan II	6.7	U		7.	U		5.5	U		5.	U		6.2	U		4.9	U	
72-54-8	4,4'-DDD	6.7	U		7.	U		5.5	U		5.6			6.2	U		4.9	U	
1031-07-8	Endosulfan sulfate	6.7	U		7.	U		5.5	U		5.	U		6.2	U		4.9	U	
50-29-3	4,4'-DDT	6.7	U		7.	U		5.5	U		5.	U		6.2	U		4.9	U	
72-43-5	Methoxychlor	35.	U		36.	U		28.	U		26.	U		32.	U		25.	U	
53494-70-5	Endrin ketone	6.7	U		7.	U		5.5	U		5.	U		6.2	U		4.9	U	
7421-36-3	Endrin aldehyde	6.7	UJ		7.	UJ		5.5	UJ		5.	UJ		6.2	UJ		4.9	UJ	
5103-71-9	alpha-Chlordane	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
5103-74-2	gamma-Chlordane	3.5	U		3.6	U		2.8	U		2.6	U		3.2	U		2.5	U	
8001-35-2	Toxaphene	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	
12674-11-2	Aroclor-1016	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	
11104-28-2	Aroclor-1221	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	
11141-16-5	Aroclor-1232	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	
53469-21-9	Aroclor-1242	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	
12672-29-6	Aroclor-1248	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	
11097-69-1	Aroclor-1254	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	
11096-82-5	Aroclor-1260	67.	U		70.	U		55.	U		50.	U		62.	U		49.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1319 PEST													
	SAMPLE ID ------->	007-S-0002-25		060-C-0003-01		060-S-0003-10		060-S-0003-14					
	ORIGINAL ID ----->	007S000225		060C000301		060S000310		060S000314					
	LAB SAMPLE ID --->	116471		116268		116269		116270					
	SAMPLE DATE ----->	02/07/95		02/01/95		02/01/95		02/01/95					
	DATE EXTRACTED -->	02/19/95		02/15/95		02/15/95		02/15/95					
	DATE ANALYZED --->	02/26/95		02/26/95		02/26/95		02/26/95					
	MATRIX ---------->	Soil		Soil		Soil		Soil					
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A				
CAS #	Parameter												
319-84-6	alpha-BHC	2.4	U	2.	U	2.2	U	2.2	U				
319-85-7	beta-BHC	2.4	U	2.	U	2.2	U	2.2	U				
319-86-8	delta-BHC	2.4	U	2.	U	2.2	U	2.2	U				
58-89-9	gamma-BHC (Lindane)	2.4	U	2.	U	2.2	U	2.2	U				
76-44-8	Heptachlor	2.4	U	2.	U	2.2	U	2.2	U				
309-00-2	Aldrin	2.4	U	2.	U	2.2	U	2.2	U				
1024-57-3	Heptachlor epoxide	2.4	U	2.	U	2.2	U	2.2	U				
959-98-8	Endosulfan I	2.4	U	2.	U	2.2	U	2.2	U				
60-57-1	Dieldrin	4.6	U	4.	U	4.2	U	4.3	U				
72-55-9	4,4'-DDE	4.6	U	4.	U	4.2	U	4.3	U				
72-20-8	Endrin	4.6	U	4.	U	4.2	U	4.3	U				
33213-65-9	Endosulfan II	4.6	U	4.	U	4.2	U	4.3	U				
72-54-8	4,4'-DDD	4.6	U	4.	U	4.2	U	4.3	U				
1031-07-8	Endosulfan sulfate	4.6	U	4.	U	4.2	U	4.3	U				
50-29-3	4,4'-DDT	4.6	U	4.	U	4.2	U	4.3	U				
72-43-5	Methoxychlor	24.	U	20.	U	22.	U	22.	U				
53494-70-5	Endrin ketone	4.6	U	4.	U	4.2	U	4.3	U				
7421-36-3	Endrin aldehyde	4.6	UJ	4.	UJ	4.2	UJ	4.3	UJ				
5103-71-9	alpha-Chlordane	2.4	U	2.	U	2.2	U	2.2	U				
5103-74-2	gamma-Chlordane	2.4	U	2.	U	2.2	U	2.2	U				
8001-35-2	Toxaphene	46.	U	40.	U	42.	U	43.	U				
12674-11-2	Aroclor-1016	46.	U	40.	U	42.	U	43.	U				
11104-28-2	Aroclor-1221	46.	U	40.	U	42.	U	43.	U				
11141-16-5	Aroclor-1232	46.	U	40.	U	42.	U	43.	U				
53469-21-9	Aroclor-1242	46.	U	40.	U	42.	U	43.	U				
12672-29-6	Aroclor-1248	46.	U	40.	U	42.	U	43.	U				
11097-69-1	Aroclor-1254	46.	U	40.	U	42.	U	43.	U				
11096-82-5	Aroclor-1260	46.	U	40.	U	42.	U	43.	U				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1319 SVOA													
	SAMPLE ID ------->	007-S-0001-01		007-S-0001-09		007-S-0001-14		007-S-0002-01		007-S-0002-08		007-S-0002-18	
	ORIGINAL ID ----->	007S000101		007S000109		007S000114		007S000201		007S000208		007S000218	
	LAB SAMPLE ID --->	116465		116466		116467		116468		116469		116470	
	SAMPLE DATE ----->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE EXTRACTED -->	02/17/95		02/17/95		02/17/95		02/17/95		02/17/95		02/17/95	
	DATE ANALYZED --->	02/23/95		02/23/95		02/23/95		02/23/95		02/23/95		02/23/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
67-72-1	Hexachloroethane	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
78-59-1	Isophorone	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
88-75-5	2-Nitrophenol	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
105-67-9	2,4-Dimethylphenol	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
111-91-1	bis(2-Chloroethoxy)methane	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
120-83-2	2,4-Dichlorophenol	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
120-82-1	1,2,4-Trichlorobenzene	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
91-20-3	Naphthalene	220.	J	410.	U	400.	U	380.	U	380.	U	390.	U
106-47-8	4-Chloroaniline	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
87-68-3	Hexachlorobutadiene	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
59-50-7	4-Chloro-3-methylphenol	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
91-57-6	2-Methylnaphthalene	82.	J	410.	U	400.	U	380.	U	380.	U	390.	U
77-47-4	Hexachlorocyclopentadiene	390.	UJ	410.	UJ	400.	UJ	380.	UJ	380.	UJ	390.	UJ
88-06-2	2,4,6-Trichlorophenol	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
95-95-4	2,4,5-Trichlorophenol	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
91-58-7	2-Chloronaphthalene	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
88-74-4	2-Nitroaniline	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
131-11-3	Dimethylphthalate	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
208-96-8	Acenaphthylene	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
606-20-2	2,6-Dinitrotoluene	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
99-09-2	3-Nitroaniline	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
83-32-9	Acenaphthene	390.	U	410.	U	400.	U	120.	J	380.	U	390.	U
51-28-5	2,4-Dinitrophenol	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
100-02-7	4-Nitrophenol	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
132-64-9	Dibenzofuran	390.	U	410.	U	400.	U	72.	J	380.	U	390.	U
121-14-2	2,4-Dinitrotoluene	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
84-66-2	Diethylphthalate	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
7005-72-3	4-Chlorophenylphenylether	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
86-73-7	Fluorene	390.	U	410.	U	400.	U	190.	J	380.	U	390.	U
100-01-6	4-Nitroaniline	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
534-52-1	4,6-Dinitro-2-methylphenol	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
86-30-6	N-Nitrosodiphenylamine	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
101-55-3	4-Bromophenylphenylether	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
118-74-1	Hexachlorobenzene	390.	U	410.	U	400.	U	380.	U	380.	U	390.	U
87-86-5	Pentachlorophenol	940.	U	990.	U	980.	U	910.	U	920.	U	940.	U
85-01-8	Phenanthrene	390.	U	410.	U	400.	U	1600.		380.	U	390.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1319 SVOA						
SAMPLE ID ------->	007-S-0001-01	007-S-0001-09	007-S-0001-14	007-S-0002-01	007-S-0002-08	007-S-0002-18
ORIGINAL ID ----->	007S000101	007S000109	007S000114	007S000201	007S000208	007S000218
LAB SAMPLE ID --->	116465	116466	116467	116468	116469	116470
SAMPLE DATE ----->	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95
DATE EXTRACTED -->	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95
DATE ANALYZED --->	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95	02/23/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
120-12-7 Anthracene	390. U	410. U	400. U	310. J	380. U	390. U
86-74-8 Carbazole	390. U	410. U	400. U	160. J	380. U	390. U
84-74-2 Di-n-butylphthalate	390. U	410. U	400. U	380. U	380. U	390. U
206-44-0 Fluoranthene	390. U	410. U	400. U	2800.	380. U	390. U
129-00-0 Pyrene	390. U	410. U	400. U	2100.	380. U	390. U
85-68-7 Butylbenzylphthalate	390. U	410. U	400. U	380. U	380. U	390. U
91-94-1 3,3'-Dichlorobenzidine	390. U	410. U	400. U	380. U	380. U	390. U
56-55-3 Benzo(a)anthracene	390. U	410. U	400. U	1200.	380. U	390. U
218-01-9 Chrysene	390. U	410. U	400. U	1200.	380. U	390. U
117-81-7 bis(2-Ethylhexyl)phthalate (BEHP)	250. J	55. J	400. U	380. U	380. U	390. U
117-84-0 Di-n-octylphthalate	390. U	410. U	400. U	380. U	380. U	390. U
205-99-2 Benzo(b)fluoranthene	390. U	410. U	400. U	1200.	380. U	390. U
207-08-9 Benzo(k)fluoranthene	390. U	410. U	400. U	990.	380. U	390. U
50-32-8 Benzo(a)pyrene	390. U	410. U	400. U	1200.	380. U	390. U
193-39-5 Indeno(1,2,3-cd)pyrene	390. U	410. U	400. U	610.	380. U	390. U
53-70-3 Dibenzo(a,h)anthracene	390. U	410. U	400. U	240. J	380. U	390. U
191-24-2 Benzo(g,h,i)perylene	390. U	410. U	400. U	710.	380. U	390. U
108-95-2 Phenol	390. U	410. U	400. U	380. U	380. U	390. U
111-44-4 bis(2-Chloroethyl)ether	390. U	410. U	400. U	380. U	380. U	390. U
95-57-8 2-Chlorophenol	390. U	410. U	400. U	380. U	380. U	390. U
541-73-1 1,3-Dichlorobenzene	390. U	410. U	400. U	380. U	380. U	390. U
106-46-7 1,4-Dichlorobenzene	390. U	410. U	400. U	380. U	380. U	390. U
95-50-1 1,2-Dichlorobenzene	390. U	410. U	400. U	380. U	380. U	390. U
95-48-7 2-Methylphenol (o-Cresol)	390. U	410. U	400. U	380. U	380. U	390. U
108-60-1 2,2'-oxybis(1-Chloropropane)	390. U	410. U	400. U	380. U	380. U	390. U
106-44-5 4-Methylphenol (p-Cresol)	390. U	410. U	400. U	380. U	380. U	390. U
98-95-3 Nitrobenzene	390. U	410. U	400. U	380. U	380. U	390. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1319 SVOA													
	SAMPLE ID ------->	007-S-0002-25		060-C-0003-01		060-S-0003-10		060-S-0003-14					
	ORIGINAL ID ----->	007S000225		060C000301		060S000310		060S000314					
	LAB SAMPLE ID --->	116471		116268		116269		116270					
	SAMPLE DATE ----->	02/07/95		02/01/95		02/01/95		02/01/95					
	DATE EXTRACTED -->	02/17/95		02/15/95		02/15/95		02/15/95					
	DATE ANALYZED --->	02/23/95		02/21/95		02/21/95		02/21/95					
	MATRIX ---------->	Soil		Soil		Soil		Soil					
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A				
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	370.	U	400.	U	420.	U	430.	U				
67-72-1	Hexachloroethane	370.	U	400.	U	420.	U	430.	U				
78-59-1	Isophorone	370.	U	400.	U	420.	U	430.	U				
88-75-5	2-Nitrophenol	370.	U	400.	U	420.	U	430.	U				
105-67-9	2,4-Dimethylphenol	370.	U	400.	U	420.	U	430.	U				
111-91-1	bis(2-Chloroethoxy)methane	370.	U	400.	U	420.	U	430.	U				
120-83-2	2,4-Dichlorophenol	370.	U	400.	U	420.	U	430.	U				
120-82-1	1,2,4-Trichlorobenzene	370.	U	400.	U	420.	U	430.	U				
91-20-3	Naphthalene	370.	U	400.	U	420.	U	430.	U				
106-47-8	4-Chloroaniline	370.	U	400.	U	420.	U	430.	U				
87-68-3	Hexachlorobutadiene	370.	U	400.	U	420.	U	430.	U				
59-50-7	4-Chloro-3-methylphenol	370.	U	400.	U	420.	U	430.	U				
91-57-6	2-Methylnaphthalene	370.	U	400.	U	420.	U	430.	U				
77-47-4	Hexachlorocyclopentadiene	370.	UJ	400.	UJ	420.	UJ	430.	UJ				
88-06-2	2,4,6-Trichlorophenol	370.	U	400.	U	420.	U	430.	U				
95-95-4	2,4,5-Trichlorophenol	890.	U	960.	U	1000.	U	1000.	U				
91-58-7	2-Chloronaphthalene	370.	U	400.	U	420.	U	430.	U				
88-74-4	2-Nitroaniline	890.	U	960.	U	1000.	U	1000.	U				
131-11-3	Dimethylphthalate	370.	U	400.	U	420.	U	430.	U				
208-96-8	Acenaphthylene	370.	U	400.	U	420.	U	430.	U				
606-20-2	2,6-Dinitrotoluene	370.	U	400.	U	420.	U	430.	U				
99-09-2	3-Nitroaniline	890.	U	960.	U	1000.	U	1000.	U				
83-32-9	Acenaphthene	370.	U	400.	U	420.	U	430.	U				
51-28-5	2,4-Dinitrophenol	890.	U	960.	UJ	1000.	UJ	1000.	UJ				
100-02-7	4-Nitrophenol	890.	U	960.	U	1000.	U	1000.	U				
132-64-9	Dibenzofuran	370.	U	400.	U	420.	U	430.	U				
121-14-2	2,4-Dinitrotoluene	370.	U	400.	U	420.	U	430.	U				
84-66-2	Diethylphthalate	370.	U	400.	U	420.	U	430.	U				
7005-72-3	4-Chlorophenylphenylether	370.	U	400.	U	420.	U	430.	U				
86-73-7	Fluorene	370.	U	400.	U	420.	U	430.	U				
100-01-6	4-Nitroaniline	890.	U	960.	U	1000.	U	1000.	U				
534-52-1	4,6-Dinitro-2-methylphenol	890.	U	960.	U	1000.	U	1000.	U				
86-30-6	N-Nitrosodiphenylamine	370.	U	400.	U	420.	U	430.	U				
101-55-3	4-Bromophenylphenylether	370.	U	400.	U	420.	U	430.	U				
118-74-1	Hexachlorobenzene	370.	U	400.	U	420.	U	430.	U				
87-86-5	Pentachlorophenol	890.	U	960.	U	1000.	U	1000.	U				
85-01-8	Phenanthrene	370.	U	400.	U	420.	U	430.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 SVOA													
	SAMPLE ID ------->	007-S-0002-25		060-C-0003-01		060-S-0003-10		060-S-0003-14					
	ORIGINAL ID ----->	007S000225		060C000301		060S000310		060S000314					
	LAB SAMPLE ID --->	116471		116268		116269		116270					
	SAMPLE DATE ----->	02/07/95		02/01/95		02/01/95		02/01/95					
	DATE EXTRACTED -->	02/17/95		02/15/95		02/15/95		02/15/95					
	DATE ANALYZED --->	02/23/95		02/21/95		02/21/95		02/21/95					
	MATRIX ---------->	Soil		Soil		Soil		Soil					
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A				
CAS #	Parameter												
120-12-7	Anthracene	370.	U	400.	U	420.	U	430.	U				
86-74-8	Carbazole	370.	U	400.	U	420.	U	430.	U				
84-74-2	Di-n-butylphthalate	370.	U	400.	U	420.	U	430.	U				
206-44-0	Fluoranthene	370.	U	400.	U	420.	U	430.	U				
129-00-0	Pyrene	370.	U	400.	U	420.	U	430.	U				
85-68-7	Butylbenzylphthalate	370.	U	400.	U	420.	U	430.	U				
91-94-1	3,3'-Dichlorobenzidine	370.	U	400.	U	420.	U	430.	U				
56-55-3	Benzo(a)anthracene	370.	U	400.	U	420.	U	430.	U				
218-01-9	Chrysene	370.	U	400.	U	420.	U	430.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	370.	U	400.	U	420.	U	430.	U				
117-84-0	Di-n-octylphthalate	370.	U	400.	U	420.	U	430.	U				
205-99-2	Benzo(b)fluoranthene	370.	U	400.	U	420.	U	430.	U				
207-08-9	Benzo(k)fluoranthene	370.	U	400.	U	420.	U	430.	U				
50-32-8	Benzo(a)pyrene	370.	U	400.	U	420.	U	430.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	370.	U	400.	U	420.	U	430.	U				
53-70-3	Dibenzo(a,h)anthracene	370.	U	400.	U	420.	U	430.	U				
191-24-2	Benzo(g,h,i)perylene	370.	U	400.	U	420.	U	430.	U				
108-95-2	Phenol	370.	U	400.	U	420.	U	430.	U				
111-44-4	bis(2-Chloroethyl)ether	370.	U	400.	U	420.	U	430.	U				
95-57-8	2-Chlorophenol	370.	U	400.	U	420.	U	430.	U				
541-73-1	1,3-Dichlorobenzene	370.	U	400.	U	420.	U	430.	U				
106-46-7	1,4-Dichlorobenzene	370.	U	400.	U	420.	U	430.	U				
95-50-1	1,2-Dichlorobenzene	370.	U	400.	U	420.	U	430.	U				
95-48-7	2-Methylphenol (o-Cresol)	370.	U	400.	U	420.	U	430.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	370.	U	400.	U	420.	U	430.	U				
106-44-5	4-Methylphenol (p-Cresol)	370.	U	400.	U	420.	U	430.	U				
98-95-3	Nitrobenzene	370.	U	400.	U	420.	U	430.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 TPH						
SAMPLE ID ------->	007-S-0001-01	007-S-0001-09	007-S-0001-14	007-S-0002-01	007-S-0002-08	007-S-0002-18
ORIGINAL ID ----->	007S000101	007S000109	007S000114	007S000201	007S000208	007S000218
LAB SAMPLE ID --->	116457	116458	116459	116460	116461	116462
SAMPLE DATE ----->	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95	02/07/95
DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	1400.	85. U	82. U	80. U	510.	83. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 TPH						
SAMPLE ID ------->	007-S-0002-25	060-C-0003-01	060-S-0003-10	060-S-0003-14		
ORIGINAL ID ----->	007S000225	060C000301	060S000310	060S000314		
LAB SAMPLE ID --->	116463	116263	116264	116265		
SAMPLE DATE ----->	02/07/95	02/01/95	02/01/95	02/01/95		
DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95		
DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95		
MATRIX ---------->	Soil	Soil	Soil	Soil		
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A		
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	750.	79. U	84. U	85. U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1319 VOA													
	SAMPLE ID ------->	007-S-0001-01		007-S-0001-09		007-S-0001-14		007-S-0002-01		007-S-0002-08		007-S-0002-18	
	ORIGINAL ID ----->	007S000101		007S000109		007S000114		007S000201		007S000208		007S000218	
	LAB SAMPLE ID --->	116465		116466		116467		116468		116469		116470	
	SAMPLE DATE ----->	02/07/95		02/07/95		02/07/95		02/07/95		02/07/95		02/07/95	
	DATE ANALYZED --->	02/17/95		02/20/95		02/19/95		02/17/95		02/18/95		02/19/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	12.	U	13.	U	2.	J	12.	U	13.	U	12.	U
74-83-9	Bromomethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-01-4	Vinyl chloride	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-00-3	Chloroethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-09-2	Methylene chloride	1.	J	13.	U	12.	U	12.	U	13.	U	12.	U
67-64-1	Acetone	47.	J	220.	J	12.	UJ	130.	J	47.	UJ	12.	UJ
75-15-0	Carbon disulfide	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-35-4	1,1-Dichloroethene	12.	UJ	13.	U	12.	U	12.	UJ	13.	U	12.	U
75-34-3	1,1-Dichloroethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
67-66-3	Chloroform	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
107-06-2	1,2-Dichloroethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
78-93-3	2-Butanone (MEK)	12.	J	19.	J	12.	UJ	12.	UJ	13.	U	12.	UJ
71-55-6	1,1,1-Trichloroethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
56-23-5	Carbon tetrachloride	12.	UJ	13.	UJ	12.	U	12.	UJ	13.	U	12.	U
75-27-4	Bromodichloromethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
78-87-5	1,2-Dichloropropane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
79-01-6	Trichloroethene	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
124-48-1	Dibromochloromethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
71-43-2	Benzene	8.	J	1.	J	29.		12.	U	13.	U	12.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-25-2	Bromoform	12.	U	13.	U	12.	UJ	12.	U	13.	U	12.	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	17.		12.	UJ	12.	U	13.	U	12.	UJ
591-78-6	2-Hexanone	12.	UJ	15.		12.	UJ	12.	UJ	13.	U	12.	UJ
127-18-4	Tetrachloroethene	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	13.	U	12.	UJ	12.	U	13.	U	12.	UJ
108-88-3	Toluene	170.		9.	J	12.	U	12.	U	13.	U	12.	U
108-90-7	Chlorobenzene	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
100-41-4	Ethylbenzene	14.		2.	J	12.	U	12.	U	13.	U	12.	U
100-42-5	Styrene	12.	U	13.	U	12.	U	12.	U	13.	U	12.	U
1330-20-7	Xylene (Total)	49.		5.	J	12.	U	12.	U	13.	U	12.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1319 VOA	SAMPLE ID ------->	007-S-0002-25		060-C-0003-01		060-S-0003-10		060-S-0003-14			
	ORIGINAL ID ----->	007S000225		060C000301		060S000310		060S000314			
	LAB SAMPLE ID --->	116471		116268		116269		116270			
	SAMPLE DATE ----->	02/07/95		02/01/95		02/01/95		02/01/95			
	DATE ANALYZED --->	02/20/95		02/07/95		02/06/95		02/06/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter										
74-87-3	Chloromethane	12.	U	12.	U	13.	U	13.	U		
74-83-9	Bromomethane	12.	U	12.	U	13.	U	13.	U		
75-01-4	Vinyl chloride	12.	U	12.	U	13.	U	13.	U		
75-00-3	Chloroethane	12.	U	12.	U	13.	U	13.	U		
75-09-2	Methylene chloride	12.	U	2.	J	13.	U	13.	U		
67-64-1	Acetone	14.	UJ	23.	J	13.	UJ	17.	J		
75-15-0	Carbon disulfide	12.	U	12.	U	13.	U	4.	J		
75-35-4	1,1-Dichloroethene	12.	U	12.	U	13.	U	13.	U		
75-34-3	1,1-Dichloroethane	12.	U	12.	U	13.	U	13.	U		
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	13.	U	13.	U		
67-66-3	Chloroform	12.	U	12.	U	13.	U	13.	U		
107-06-2	1,2-Dichloroethane	12.	U	12.	U	13.	U	13.	U		
78-93-3	2-Butanone (MEK)	12.	UJ	12.	UJ	13.	UJ	13.	UJ		
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	13.	U	13.	U		
56-23-5	Carbon tetrachloride	12.	UJ	12.	U	13.	U	13.	U		
75-27-4	Bromodichloromethane	12.	U	12.	U	13.	U	13.	U		
78-87-5	1,2-Dichloropropane	12.	U	12.	U	13.	U	13.	U		
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	13.	U	13.	U		
79-01-6	Trichloroethene	12.	U	12.	U	13.	U	13.	U		
124-48-1	Dibromochloromethane	12.	U	12.	U	13.	U	13.	U		
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	13.	U	13.	U		
71-43-2	Benzene	12.	U	12.	U	13.	U	13.	U		
10061-02-6	trans-1,3-Dichloropropene	12.	U	12.	U	13.	U	13.	U		
75-25-2	Bromoform	12.	U	12.	U	13.	U	13.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	12.	U	13.	U	13.	U		
591-78-6	2-Hexanone	12.	U	12.	UJ	13.	UJ	13.	UJ		
127-18-4	Tetrachloroethene	12.	U	12.	U	13.	U	13.	U		
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	12.	U	13.	U	13.	U		
108-88-3	Toluene	12.	U	12.	U	13.	U	13.	U		
108-90-7	Chlorobenzene	12.	U	12.	U	13.	U	13.	U		
100-41-4	Ethylbenzene	12.	U	12.	U	13.	U	13.	U		
100-42-5	Styrene	12.	U	12.	U	13.	U	13.	U		
1330-20-7	Xylene (Total)	12.	U	12.	U	13.	U	13.	U		

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00451, 95.00452, 95.00472, 95.00473, 95.00483, and 95.00484 (Level IV Validation)
Case Nº:	FD1325

Sample Identification	Matrix
007S000301	Soil
007S000308	Soil
007S000310	Soil
007S000401	Soil
007S000409	Soil
007S000419	Soil
007S000501	Soil
007S000501D	Soil
007S000501S	Soil
007S000510	Soil
007S000527	Soil
007C000419	Soil
007S000601	Soil
007S000611	Soil
007S000624	Soil
007S000701	Soil
007S000710	Soil
007S000732	Soil
007C000732	Soil
007P020995	Water

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INTRODUCTION

This data review report covers 19 soil samples and 1 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form 10), inter-element corrections (Form 11 A & B) and linear range analysis (Form 12) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field or Trip Blank	Action Level (5x high. blk.)		Associated Samples
				(mg/kg)	(µg/L)		(mg/kg)	(µg/L)	
Barium	2.0					34.5	34.5	172.5	All
Copper	5.0		7.9				7.9	39.5	All
Lead	2.0				2.350		2.350	11.75	All
Selenium	2.0		2.2				2.2	11.0	All
Tin	15.0	68.8	64.8		35.9		68.8	344.0	All
Zinc	5.0	5.4	6.7	1.116			6.7	33.5	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
007S409	Tin	4.2B	4.2U
007S510	Selenium	0.52B	0.52U
007S601	Selenium Tin	0.59B 5.2B	0.59U 5.2U
007S611	Tin	12.2B	12.2U
007S624	Tin	7.0B	7.0U
007S701	Tin	13.3B	13.3U
007S710	Tin	6.2B	6.2U
007C732	Tin	4.2B	4.2U
007S301	Tin	13.0B	13.0U
007S308	Tin	6.2B	6.2U
007S310	Tin	4.8B	4.8U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

Analytes that are not present in the ICS solution but has an absolute value > IDL are as follow:

Date	Element	ICSAI Result (µg/L)	ICSF Result (µg/L)	IDL (µg/L)	Samples Affected	Flag
02/22/95	Antimony	50		40.0	None	None
	Barium	23	23	2.0	None	None
	Cadmium	35	32	3.0	None	None
	Chromium	-6	-6	5.0	None	None
	Copper	16	15	5.0	None	None
	Silver	5	4	3.0	None	None
	Vanadium	-11	-11	4.0	None	None
	Zinc	32	36	5.0	None	None

No samples were affected since the Copper, Aluminum, Magnesium and Iron levels in the samples were less than that in the ICS.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Sample	Analyte	MS %R (Limit)	Associated Samples	Flag
007S000501	Antimony	48.4 (75-125%)	All	J(detect)/UJ(non-detect)
	Arsenic	67.1 (75-125%)		J(detect)/UJ(non-detect)
	Lead	62.7 (75-125%)		J(detect)/UJ(non-detect)
	Silver	72.4 (75-125%)		J(detect)/UJ(non-detect)

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within $\geq$20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
007C419	Arsenic	121.0	85-115%	None (MSA passed)
007C419	Selenium	60.5	85-115%	J(detect)/UJ(non-detect)
007S527	Arsenic	118.0	85-115%	None (MSA passed)
007S409	Selenium	81.5	85-115%	J(detect)/UJ(non-detect)
007S419	Selenium	59.0	85-115%	J(detect)/UJ(non-detect)
007S501	Selenium	69.0	85-115%	J(detect)/UJ(non-detect)

MSA was performed and the correlation coefficients were within QC limit of >0.995.

MSA was required for the following but were not performed:

Sample	Element	Flag
007C419	Selenium	J(detect)/UJ(non-detect)
007S409	Selenium	J(detect)/UJ(non-detect)
007S419	Selenium	J(detect)/UJ(non-detect)
007S501	Selenium	J(detect)/UJ(non-detect)

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

Sample results were accurately transposed.

Calculated results were the same as the reported results.

XI. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. All detected analytes were within QC limit.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1325

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	007S000409 007S000601 007S000611 007S000624 007S000701 007S000710 007C000732 007S000301 007S000308 007S000310	Tin	U	Blank contamination
FD1325	007S000510 007S000601	Selenium	U	Blank contamination
FD1325	All	Antimony Arsenic Lead Silver	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Matrix spike %R
FD1325	007C000419 007S000409 007S000419 007S000501	Selenium	J(detect)/UJ(non-detect)	Analytical spike %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00451, 95.00452, 95.00472, 95.00473, 95.00483, and 95.00484 (Level IV Validation)
Case Nº:	FD1325

Sample Identification	Matrix
007S000301	Soil
007S000308	Soil
007S000310	Soil
007S000401	Soil
007S000409	Soil
007S000419	Soil
007C000419	Soil
007S000501	Soil
007S000510	Soil
007S000527	Soil
007S000601	Soil
007S000611	Soil
007S000624	Soil
007S000701	Soil
007S000710	Soil
007S000732	Soil
007C000732	Soil
007S000501MS	Soil
007S000501MD	Soil
007P020995	Water
007T020895	Water
007T020995	Water
007T021095	Water
007T221095	Water

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INTRODUCTION

This data review report covers 19 soil samples and 5 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/01/95 12:21	HP5970L	Acetone	32.3 (≤30%)	007S000301 007S000308 007S000310 007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/16/95 09:34	HP5970L	Acetone Carbon tetrachloride	33.3 (±25.0%) 32.2 (±25.0%)	007S000301 007S000308 007S000310 007S000401 007S000409 007S000419 007C000419 007S000501	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/17/95 09:50	HP5970L	Acetone 1,1-Dichloroethane 2-Butanone Carbon tetrachloride 2-Hexanone	42.0 (±25.0%) -25.4 (±25.0%) 29.7 (±25.0%) 34.0 (±25.0%) 32.7 (±25.0%)	007S000510 007S000527	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/18/95 13:58	HP5970L	Acetone	29.7 (±25.0%)	007S000611 007S000624 007S000710 007S000732	J(detect)/UJ(non-detect)
02/19/95 09:09	HP5970L	Acetone 2-Butanone 4-Methyl-2-pentanone 2-Hexanone 1,1,2,2-Tetrachloroethane Bromoform	55.8 (±25.0%) 49.0 (±25.0%) 42.2 (±25.0%) 44.5 (±25.0%) 33.3 (±25.0%) 34.3 (±25.0%)	007S000601 007S000701	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/20/95 14:36	HP5970L	Acetone 2-Butanone Carbon Tetrachloride	39.1 (±25.0%) 28.5 (±25.0%) 33.7 (±25.0%)	007C000732	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level (µg/L) 5 x	Action Level (µg/L) 10 x	Samples Affected	Reported Concentration (µg/L)	Modified Final Concentration (µg/L)
02/17/95	VBLK021795L	Bromomethane	1J	5.0		007S000510 007S000527	1BJ 2BJ	13U 13U
02/18/95	VBLK021B95L	Acetone	6J		60	007S000611 007S000624 007S000732	14BY 12BJY 14BY	14U 12U 14U
02/20/95	VBLK022095L	Acetone	8J		80	007C000732	21BY	21U

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level 10 x (µg/L)	Samples Affected	Reported Concentration (µg/L)	Modified Final Concentration (µg/L)
02/16/95	007T020995	Methylene chloride	1J	10.0	007S000510 007S000527	2J 2J	13U 13U

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Compound	MS %R (Limit)	MSD %R (Limit)	RPD (Limit)	Flag
007S000501	Toluene Chlorobenzene	N/A	N/A	24 (≤21%) 22 (≤21%)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated. Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms and mass spectra in every sample and blank were examined to verify the reported TIC. Their quantitations were reported according to SW846. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1325

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	007S000301 007S000308 007S000310 007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	Acetone	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1325	007S000301 007S000308 007S000310 007S000401 007S000409 007S000419 007C000419 007S000501	Acetone Carbon tetrachloride	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000510 007S000527	Acetone 1,1-Dichloroethane 2-Butanone Carbon tetrachloride 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000611 007S000624 007S000710 007S000732	Acetone	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000601 007S000701	Acetone 2-Butanone 4-Methyl-2-pentanone 2-Hexanone 1,1,2,2-Tetrachloroethane Bromoform	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007C000732	Acetone 2-Butanone Carbon Tetrachloride	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000510 007S000527	Bromomethane	13U 13U	Method blank contamination
FD1325	007S000611 007S000624 007S000732 007C000732	Acetone	14U 12U 14U 21U	Method blank contamination
FD1325	007S000510 007S000527	Methylene chloride	13U 13U	Field blank contamination
FD1325	007S000501	Toluene Chlorobenzene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Matrix spike/matrix spike duplicate RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00451, 95.00452, 95.00472, 95.00473, 95.00483, and 95.00484 (Level IV Validation)
Case Nº:	FD1325

Sample Identification	Matrix
007C000419	Soil
007C000732	Soil
007P020995	Water
007P020995RE	Water
007S000301	Soil
007S000308	Soil
007S000401	Soil
007S000401RE	Soil
007S000409	Soil
007S000419	Soil
007S000501	Soil
007S000510	Soil
007S000527	Soil
007S000601	Soil
007S000611	Soil
007S000624	Soil
007S000701	Soil
007S000710	Soil
007S000732	Soil
007S000310	Soil
007S000501MS	Soil
007S000501MD	Soil

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INTRODUCTION

This data review report covers 20 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Extraction Holding Time / QC Limit	Flag
007S000401RE	Soil	17 / 14	J(detect)/UJ(non-detect)

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/08/95 10:28	HP5970J	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N-Nitrosodiphenylamine Bis(2-ethylhexyl)phthalate	38.8 (≤30%) 30.2 (≤30%) 40.3 (≤30%) 32.5 (≤30%) 31.5 (≤30%)	007C000419 007S000401 007S000409 007S000419 007S000501 007S000510 007S000527	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/21/95 09:13	HP5970F	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	43.7 (≤30%) 30.6 (≤30%)	007C000732 007S000301 007S000308 007S000401RE 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007S000310	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
02/27/95 15:40	HP5970F	Benzo(k)Fluoranthene	-28.4 (≤25%)	007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	J(detect)/UJ(non-detect)
02/23/95 08:31	HP5970J	Hexachlorocyclopentadiene 4-Nitrophenol Di-N-octyl phthalate	-40.5 (≤25%) 29.5 (≤25%) 26.1 (≤25%)	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. No contaminants found in the method blanks.

The field blank analyses were performed at required frequencies. Contaminants found in the field blanks that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (µg/L)	Action Level 10 x (µg/L)	Associated Samples	Reported Concentration (µg/L)	Modified Final Concentration (µg/L)
03/21/95	007P020995	bis(2-ethylhexyl)phthalate	3J	30	007S000710	77J	430U

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846.

All surrogate spike recoveries met QC requirements except for the following:

Sample	Surrogate Spike Compound	%R	Limit	Compounds Affected	Flag
007S000401	Nitrobenzene-d5	0	(23-120)	All compounds	J(detect)/R(non-detect)
	2-Fluorobiphenyl	0	(30-115)		
	Triphenyl-d14	0	(18-137)		
	Phenol-d5	0	(24-113)		
	2-Fluorophenol	0	(25-121)		
	2,4,6-Tribromophenol	0	(19-122)		
	2-Chlorophenol-d4	0	(20-130)		
	1,2-Dichlorobenzene-d4	0	(20-130)		

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated.

Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms and mass spectra in every sample and blank were examined to verify the reported TIC. Their quantitations were reported according to SW846. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XVI. OVERALL ASSESSMENT OF DATA

For sample 007P020995, results for the original sample should be used since there were no action due to only one surrogate out of QC limit. For sample 007S000401, results of the re-extracted sample should be used.

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1325

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	007S000401RE	All compounds	J(detect)/UJ(non-detect)	Holding time violation
FD1325	007C000419 007S000401 007S000409 007S000419 007S000501 007S000510 007S000527	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N-Nitrosodiphenylamine Bis(2-ethylhexyl)phthalate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD*
FD1325	007C000732 007S000301 007S000308 007S000401RE 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007S000310	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1325	007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	Benzo(k)Fluoranthene	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	Hexachlorocyclopentadiene 4-Nitrophenol Di-n-octyl phthalate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000710	Bis(2-ethylhexyl)phthalate	430U	Field blank contamination
FD1325	007S000401	All	J(detect)/R(non-detect)	Surrogate spike %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00451, 95.00452, 95.00472, 95.00473, 95.00483, 95.00484 (Level IV Validation)
Case Nº:	FD1325

Sample Identification	Matrix
007P020995	Water
007C000419	Soil
007C000732	Soil
007S000301	Soil
007S000308	Soil
007S000310	Soil
007S000401	Soil
007S000409	Soil
007S000419	Soil
007S000501	Soil
007S000510	Soil
007S000527	Soil
007S000601	Soil
007S000611	Soil
007S000624	Soil
007S000701	Soil
007S000701DL	Soil
007S000710	Soil
007S000732	Soil
007S000501MS	Soil
007S000501MD	Soil

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INTRODUCTION

This data review report covers 20 soil samples and 1 water sample listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit except for the following:

Date/ Time	Standard	Compound	%D Primary Column (RT x 5)	QC Limit	Associated Samples	Flag
02/25/95 / 5:33	INDBM03	Endrin Aldehyde	-17.69	(±15.0) (±15.0) (±15.0) (±15.0) (±15.0) (±15.0) (±15.0) (±15.0) (±15.0)	007S000301 007S000308 007S000310 007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	J(detect)UJ(non-detect)
02/25/95 / 22:50	INDBM05	Endrin Aldehyde	-23.07	(±15.0) (±15.0) (±15.0) (±15.0) (±15.0) (±15.0) (±15.0)	007S000601 007S000611 007S000624 007S000710 007S000732 007C000732 007S000701	J(detect)UJ(non-detect)
02/26/95 / 4:47	INDBM06	Endrin Aldehyde	-16.16	(±15.0)	007S000701	J(detect)UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. RT windows were all within QC limit.

No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Compound	%R Primary Column(RTX35)	%R Secondary Column(RTX35)	Advisory Limit %	Compounds Affected	Flag
007S000701	Decachlorobiphenyl	214	173	36-159	All	J(detect)/None(non-detect)
007S000701DL	Decachlorobiphenyl	213		36-159	All	J(detect)/None(non-detect)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was/were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
007S000501	Endosulfan sulfate Endrin Aldehyde			31 (<30) 31 (<30)	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Not required by SW846.

IX. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were properly identified except for the following compounds which were found to be misidentified and the appropriate actions were recommended:

Sample	Compound	Column	RT (Window)	%D (QC Limit)	Flag
007S000501	Heptachlor epoxide			465.2(≤25%)	J(detect)/UJ(non-detect)

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

Aroclor 1260 was out of range in sample 007S000701. The sample was diluted and Aroclor 1260 was within the range in the diluted sample. Result of Aroclor 1260 of diluted sample was reported.

Sample	Compound	Reported Result	Modified Result
007S000701	Aroclor 1260	22000E	20000D

On form 1 D, the volume of the Concentrated Extract was erroneously listed as 5000 uL. It should be 10 ml as listed in the extraction log.

XII. FIELD DUPLICATES

2 sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Overall, the quality of the data was acceptable.

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1325

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	007S000301 007S000308 007S000310 007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	Endrin Aldehyde	J(detect)/UJ(non-detect)	Calibration Verification D % Out
FD1325	007S000601 007S000611 007S000624 007S000710 007S000732 007C000732 007S000701	Endrin Aldehyde	J(detect)/UJ(non-detect)	Calibration Verification D % Out
FD1325	007S000701	Endrin Aldehyde	J(detect)/UJ(non-detect)	Calibration Verification D % Out
FD1325	007S000701	All	J(detect)/None(non-detect)	Surrogate R% out
FD1325	007S000701DL	All	J(detect)/None(non-detect)	Surrogate R% out
FD1325	007S000501	Endosulfan sulfate Endrin Aldehyde	J(detect)/UJ(non-detect)	MS/MSD RPD out
FD1325	007S000501	Heptachlor epoxide	J(detect)/UJ(non-detect)	% D between 2 columns
FD1325	007S000701	Aroclor 1260	20000D	Result of diluted sample

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00451, 95.00452, 95.00472, 95.00473, 95.00483, and 95.00484 (Level IV Validation)
Case Nº:	FD1325

Sample Identification	Matrix
007C000419	Soil
007C000732	Soil
007P020995	Water
007S000301	Soil
007S000308	Soil
007S000310	Soil
007S000401	Soil
007S000409	Soil
007S000419	Soil
007S000501	Soil
007S000510	Soil
007S000527	Soil
007S000601	Soil
007S000611	Soil
007S000624	Soil
007S000701	Soil
007S000710	Soil
007S000732	Soil
007S000501MS	Soil
007S000501MD	Soil

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INTRODUCTION

This data review report covers 19 soil samples and 1 water sample listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/22/95 20:40	RF250	Mevinphos, alpha	22.7	≤20%	All samples	J(detect)/UJ(non-detect)
	RF500	Guthion	70.3	≤20%		J(detect)/UJ(non-detect)
	RF1000	Coumaphos	36.1	≤20%		J(detect)/UJ(non-detect)
	RF2000	Fensulfothion	31.4	≤20%		J(detect)/UJ(non-detect)
	RF4000					

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D RTX35 Column	%D RTX5 Column	QC Limit	Associated Samples	Flag
02/28/95 15:47	RF1000	Dichlorvos	17.3		≤15%	007S000301	J(detect)/UJ(non-detect)
		Demeton, o	-40.2		≤15%	007S000308	J(detect)/UJ(non-detect)
		Demeton, s	-17.1		≤15%	007S000310	J(detect)/UJ(non-detect)
		Methyl parathion	-159.6		≤15%		J(detect)/UJ(non-detect)
		Ronnel	-241.2		≤15%		J(detect)/UJ(non-detect)
		Chloropyrifos	-76.3		≤15%		J(detect)/UJ(non-detect)
		Tokuthion	-16.5		≤15%		J(detect)/UJ(non-detect)
		Fensulfothion	-46.3		≤15%		J(detect)/UJ(non-detect)
		Sulprofos	-45.4		≤15%		J(detect)/UJ(non-detect)
		Guthion	-287.9		≤15%		J(detect)/UJ(non-detect)
		Coumaphos	-226.9		≤15%		J(detect)/UJ(non-detect)
		Merphos		-98.3	≤15%		J(detect)/UJ(non-detect)
03/01/95 10:42	RF1000	Dichlorvos	47.5		≤15%	007S000301	J(detect)/UJ(non-detect)
		Mevinphos, alpha	40.7		≤15%	007S000308	J(detect)/UJ(non-detect)
		Naled	23.7		≤15%	007S000310	J(detect)/UJ(non-detect)
		Demeton, s	-157.7		≤15%		J(detect)/UJ(non-detect)
		Diazinon	26.9		≤15%		J(detect)/UJ(non-detect)
		Ronnel	17.3		≤15%		J(detect)/UJ(non-detect)
		Chloropyrifos	15.8		≤15%		J(detect)/UJ(non-detect)
		Fensulfothion	-51.6		≤15%		J(detect)/UJ(non-detect)
		Stirophos	31.4		≤15%		J(detect)/UJ(non-detect)
		Guthion	-126.4		≤15%		J(detect)/UJ(non-detect)
		Coumaphos	-148		≤15%		J(detect)/UJ(non-detect)
03/01/95 19:01	RF1000	Dichlorvos	29.1		≤15%	007S000401	J(detect)/UJ(non-detect)
		Mevinphos, alpha	17.5		≤15%	007S000409	J(detect)/UJ(non-detect)
		Stirophos	21.9		≤15%	007S000419	J(detect)/UJ(non-detect)
		Coumaphos	-36.7		≤15%	007C000419	J(detect)/UJ(non-detect)
						007S000501	

Date/ Time	Standard	Compound	%D RTX35 Column	%D RTX5 Column	QC Limit	Associated Samples	Flag
03/02/95 10:54	RF1000	Dichlorvos Mevinphos, alpha Fensulfothion Stirophos Guthion Coumaphos	25.5 16.4 -28.7 44.1 24.9 -16.8		≤15% ≤15% ≤15% ≤15% ≤15% ≤15%	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/03/95 02:53	RF1000	Dichlorvos Mevinphos, alpha Naled Stirophos Guthion Coumaphos	25.7 33.1 -35.6 34.2 -26.8 -45.5		≤15% ≤15% ≤15% ≤15% ≤15% ≤15%	007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency. No contaminant was found in the instrument blanks that resulted in data qualifications.

The method blanks were extracted and performed according to the SW846. No contaminant was found in the method blanks that resulted in data qualifications.

The field blanks were extracted and performed according to the SW846. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One sets of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
007S000501	RTX35	Naled Stirophos Guthion	 37 (50-140%) 16 (50-140%)	0 (50-140%) 29 (50-140%) 18 (50-140%)	200 (≤15%) 22 (≤15%)	J(detect)/R(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
007S000501	RTX5	Merphos		163 (50-140%)	39 (≤15%)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/02/95	OPLCS10223S	RTX5	Merphos	0.0 (50-150%)	0.0 (32.65-32.88)	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	J(detect)/R(non-detect)
02/27/95	NLCS10214S	RTX5 RTX35	Merphos Stirophos	0.0 (50-150%) 42 (50-150%)	0.0 (32.67-32.87)	007S000301 007S000308 007S000310	J(detect)/R(non-detect) J(detect)/UJ(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XI. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1325

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	All samples	Mevinphos, alpha Guthion Coumaphos Fensulfothion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1325	007S000301 007S000308 007S000310	Dichlorvos Demeton, o Demeton, s Methyl parathion Ronnel Chloropyrifos Tokuthion Fensulfothion Sulprofos Guthion Coumaphos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000301 007S000308 007S000310	Dichlorvos Mevinphos, alpha Naled Demeton, s Diazinon Ronnel Chloropyrifos Fensulfothion Stirophos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000401 007S000409 007S000419 007C000419 007S000501	Dichlorvos Mevinphos, alpha Stirophos Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	Dichlorvos Mevinphos, alpha Fensulfothion Stirophos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	Dichlorvos Mevinphos, alpha Naled Stirophos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1325	007S000501	Naled Stirophos Guthion Merphos	J(detect)/R(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Matrix spike/matrix spike duplicate %R & RPD

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527 007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	Merphos	J(detect)/R(non-detect)	Laboratory control sample %R
FD1325	007S000301 007S000308 007S000310	Merphos Stirophos	J(detect)/R(non-detect) J(detect)/UJ(non-detect)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00451,95.00452,95.00472 95.00473,95.00483,95.00484 (Level IV Validation)
Case Nº:	FD1325

Sample Identification	Matrix
007C000419	Soil
007C000732	Soil
007P020995	Water
007S000301	Soil
007S000308	Soil
007S000310	Soil
007S000401	Soil
007S000409	Soil
007S000419	Soil
007S000501	Soil
007S000527	Soil
007S000601	Soil
007S000611	Soil
007S000624	Soil
007S000701	Soil
007S000710	Soil
007S000732	Soil
007S000510	Soil
007S000501MS	Soil
007S000501MD	Soil

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INTRODUCTION

This data review report covers 19 soil samples and 1 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/28/95 17:57	RF10X	MCPA	21.4	<20	007S000301	J(detect)/UJ(non-detect)
	RF1X	2,4,5-T	25.8	<20	007S000310	J(detect)/UJ(non-detect)
	RF20X				007S000611	
	RF2X				007S000624	
	RF4X				007S000701	
					007S000710	
					007S000732	
					007C000732	
					007S000401	
					007S000409	
					007S000419	
					007S000501	
					007S000510	
					007S000527	
					007S000601	
					007S000308	
					007C000419	

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D Primary Column	QC% Limit	Associated Samples	Flag
03/01/95 11:25	RF10X	2,4-DB	27	15	007S000301	J(detect)/UJ(non-detect)
					007S000310	
					007S000611	
					007S000624	
					007S000701	
03/01/95 23:18	RF10X	2,4-DB	28.7	15	007S000301	J(detect)/UJ(non-detect)
					007S000310	
					007S000611	
					007S000624	
					007S000701	
					007S000710	
					007S000732	
					007C000732	

Date/ Time	Standard/ Column	Compound	%D Primary Column	QC% Limit	Associated Samples	Flag
03/03/95 04:29	RF10X	2,4-DB	25.2	15	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/03/95 15:00	RF10X	2,4-D 2,4-DB	16.1 19.2	15 15	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/03/95 18:25	RF10X	2,4-D Silvex 2,4,5-T 2,4-DB	-16.7 -16.6 -15.6 -26.9	15 15 15 15	007S000601	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/04/95 03:58	RF10X	Dicamba 2,4-D Silvex 2,4,5-T 2,4-DB	17.2 21.1 20.2 16.8 26.6	15 15 15 15 15	007S000601 007S000308	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/04/95	RF10X	Dicamba MCPP 2,4-D Silvex 2,4,5-T 2,4-DB	24.1 17.2 25.8 26.6 27.2 42.7	15 15 15 15 15 15	007S000308	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Surrogate Spike Compound	%R	%R (Adv. Limit %)	Compounds Affected	Flag
007S000419	DCAA	139	(40-115)	All compounds	J(detect)/None(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies.

Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
007S000501	Dicamba	0.0(10-150)	0(10-150)		J(detect)/R(non-detect)
	MCPP			56 (<20)	J(detect)/UJ(non-detect)
	2,4-D	306(10-150)	489(10-150)	46 (<20)	J(detect)/UJ(non-detect)
	Silvex	192(10-150)	212(10-150)		J(detect)/None(non-detect)
	2,4,5-T	327(10-150)		103 (<20)	J(detect)/UJ(non-detect)
	Dinoseb	0(10-150)	8(10-150)	200 (<20)	J(detect)/R(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	Associated Samples	Flag
HLCS02225	RTX35	Dinoseb	3.84(10-150)	007C000419 007S000401 007S000409 007S000419 007S000501 007S000510 007S000527	J(detect)/UJ(non-detect)
HLCS950223	RTX35	Dinoseb	7.87(10-150)	007S000601 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	J(detect)/UJ(non-detect)
LCS02185	RTX35	Dinoseb	1.18(10-150)	007S000301 007S000308 007S000310	J(detect)/UJ(non-detect)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were properly identified non-detected except for the following:

Sample	Compound	Column	%D (QC Limit)	Flag
007S000310	MCPP	RTX35	103.7 (<25)	J(detect)
007S000601	2,4-DB	RTX35	161.5 (<25)	J(detect)
007S000624	MCPP	RTX35	70.4 (<25)	J(detect)
007S000701	DICAMBA 2,4,5-T	RTX35 RTX35	104.2 (<25) 120.5 (<25)	J(detect) J(detect)

Sample	Compound	Column	%D (QC Limit)	Flag
007S000710	SILVEX	RTX35	396.1 (<25)	J(detect)

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

MCPP results for sample 007S000310 was erroneously entered as 940U (ug/kg) in the Electronic Deliverables. The correct value is 8000J ug/kg.

XII. FIELD DUPLICATES

2 set(s) of field duplicates was/were analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1325

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	007S000419 007C000419 007S000301 007S000310 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732 007S000401 007S000409 007S000501 007S000510 007S000527 007S000601 007S000308	MCPA 2,4,5-T	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial Calibration %RSD
FD1325	007S000301 007S000310 007S000611 007S000624 007S000701	2,4-DB	J(detect)/UJ(non-detect)	Calibration Verification %D
FD1325	007S000301 007S000310 007S000611 007S000624 007S000701 007S000710 007S000732 007C000732	2,4-DB	J(detect)/UJ(non-detect)	Calibration Verification %D
FD1325	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	2,4-DB	J(detect)/UJ(non-detect)	Calibration Verification %D
FD1325	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527 007S000601	2,4-D 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Calibration Verification %D
FD1325	007S000601	2,4-D Silvex 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Calibration Verification %D
FD1325	007S000308	Dicamba 2,4-D Silvex 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Calibration Verification %D
FD1325	007S000308	Dicamba MCPP 2,4-D Silvex 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Calibration Verification %D

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1325	007S000501	Dicamba MCPP 2,4-D Silvex 2,4,5-T Dinoseb	J(detect)/R(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/None(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)	MS,MSD% R MS,MSD% RPD MS,MSD% RPD MS,MSD% R MS,MSD% RPD MS,MSD% RPD
FD1325	007S000401 007S000409 007S000419 007C000419 007S000501 007S000510 007S000527	Dinoseb	J(detect)/UJ(non-detect)	LCS% out
FD1325	007S000301 007S000308 007S000310	Dinoseb	J(detect)/UJ(non-detect)	LCS% out
FD1325	007S000310	MCPP	J(detect)/UJ(non-detect)	2 Column %D
FD1325	007S000601	2,4-DB	J(detect)/UJ(non-detect)	2 Column %D
FD1325	007S000624	MCPP	J(detect)/UJ(non-detect)	2 Column %D
FD1325	007S000701	Dicamba 2,4,5-T	J(detect)/UJ(non-detect)	2 Column %D
FD1325	007S000710	Silvex	J(detect)/UJ(non-detect)	2 Column %D
FD1325	007S000419	All compounds	J(detect)/None(non-detect)	Surrogate %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00451, 95.00452, 95.00472, 95.00473, 95.00483, & 95.00484 (Level III Validation)
Case Nº:	FD1325

Sample Identification	Matrix
007P020995	Water
007S000301	Soil
007S000308	Soil
007S000310	Soil
007S000401	Soil
007S000409	Soil
007S000419	Soil
007C000419	Soil
007S000501	Soil
007S000510	Soil
007S000527	Soil
007S000601	Soil
007S000611	Soil
007S000624	Soil
007S000701	Soil
007S000710	Soil
007S000732	Soil
007C000732	Soil

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INTRODUCTION

This data review report covers 17 soil samples and 1 water sample listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

No continuing calibration was necessary since all analysis were done on the same day as initial calibration.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blanks.

The field blank analyses were performed at required frequencies. No contaminant was found in the field blanks.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

Two sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1325

No data were qualified for this SDG.

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 HERB						
SAMPLE ID ------->	007-S-0003-01	007-S-0003-08	007-S-0003-10	007-S-0004-01	007-S-0004-09	007-S-0004-19
ORIGINAL ID ----->	007S000301	007S000308	007S000310	007S000401	007S000409	007S000419
LAB SAMPLE ID --->	116653	116654	116655	116700	116701	116702
SAMPLE DATE ----->	02/08/95	02/08/95	02/08/95	02/09/95	02/09/95	02/09/95
DATE EXTRACTED -->	02/14/95	02/14/95	02/14/95	02/23/95	02/23/95	02/23/95
DATE ANALYZED --->	02/28/95	02/28/95	03/01/95	03/02/95	03/02/95	03/02/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
94-82-6 2,4-DB	9.5 UJ	9.5 UJ	9.5 UJ	9.2 UJ	9.4 UJ	9.3 UJ
88-85-7 Dinoseb	4.7 UJ	4.7 UJ	4.7 UJ	4.6 UJ	4.7 UJ	4.6 UJ
93-76-5 2,4,5-T	0.95 UJ	0.95 UJ	0.95 UJ	0.92 UJ	0.94 UJ	0.93 UJ
93-72-1 2,4,5-TP (Silvex)	0.95 U	0.95 UJ	0.95 U	0.92 U	0.94 U	0.93 U
75-99-0 Dalapon	23. U	23. U	23. U	22. U	22. U	22. U
1918-00-9 Dicamba	0.94 U	0.94 UJ	0.94 U	0.91 U	0.93 U	0.92 U
120-36-5 Dichlorprop	9.4 U	9.4 U	9.4 U	9.1 U	9.3 U	9.2 U
94-74-6 MCPA	940. UJ	940. UJ	940. UJ	910. UJ	930. UJ	920. UJ
93-65-2 MCPP	940. U	940. UJ	940. U	910. U	930. U	920. U
94-75-7 2,4-D	9.4 U	9.4 UJ	9.4 U	9.1 UJ	9.3 UJ	9.2 UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 HERB													
	SAMPLE ID ------->	007-C-0004-19		007-S-0005-01		007-S-0005-10		007-S-0005-27		007-S-0006-01		007-S-0006-11	
	ORIGINAL ID ----->	007C000419		007S000501		007S000510		007S000527		007S000601		007S000611	
	LAB SAMPLE ID --->	116703		116704		116705		116706		116758		116759	
	SAMPLE DATE ----->	02/09/95		02/09/95		02/09/95		02/09/95		02/10/95		02/10/95	
	DATE EXTRACTED -->	02/23/95		02/23/95		02/23/95		02/23/95		02/23/95		02/23/95	
	DATE ANALYZED --->	03/02/95		03/02/95		03/02/95		03/02/95		03/02/95		03/02/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
94-82-6	2,4-DB	9.	UJ	9.3	UJ	9.1	UJ	9.1	UJ	41.	J	9.5	UJ
88-85-7	Dinoseb	4.5	UJ	4.6	UR	4.6	UJ	4.6	UJ	4.7	UJ	4.7	UJ
93-76-5	2,4,5-T	0.9	UJ	0.93	UJ	0.92	UJ	0.91	UJ	0.95	UJ	0.95	UJ
93-72-1	2,4,5-TP (Silvex)	0.9	U	0.94	U	0.92	U	0.91	U	0.95	UJ	0.95	U
75-99-0	Dalapon	22.	U	22.	U	22.	U	22.	U	23.	U	23.	U
1918-00-9	Dicamba	0.89	U	0.93	UR	0.91	U	0.9	U	0.94	UJ	0.94	U
120-36-5	Dichlorprop	8.9	U	9.3	U	9.1	U	9.	U	9.4	U	9.4	U
94-74-6	MCPA	890.	UJ	920.	UJ	910.	UJ	900.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	890.	U	920.	UJ	910.	U	900.	U	940.	U	940.	U
94-75-7	2,4-D	8.9	UJ	9.3	UJ	9.1	UJ	9.	UJ	9.4	UJ	9.4	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 HERB												
	SAMPLE ID ------->	007-S-0006-24		007-S-0007-01		007-S-0007-10		007-S-0007-32		007-C-0007-32		
	ORIGINAL ID ----->	007S000624		007S000701		007S000710		007S000732		007C000732		
	LAB SAMPLE ID --->	116760		116761		116762		116763		116764		
	SAMPLE DATE ----->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95		
	DATE EXTRACTED -->	02/23/95		02/23/95		02/23/95		02/23/95		02/25/95		
	DATE ANALYZED --->	03/02/95		03/02/95		03/02/95		03/03/95		03/02/95		
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	
CAS #	Parameter											
94-82-6	2,4-DB	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ	9.5	UJ	
88-85-7	Dinoseb	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	
93-76-5	2,4,5-T	0.95	UJ	1.7	J	0.95	UJ	0.95	UJ	0.95	UJ	
93-72-1	2,4,5-TP (Silvex)	0.95	U	0.95	U	1.6	J	0.95	U	0.95	U	
75-99-0	Dalapon	23.	U	23.	U	23.	U	23.	U	23.	U	
1918-00-9	Dicamba	0.94	U	8.6	J	0.94	U	0.94	U	0.94	U	
120-36-5	Dichlorprop	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	940.	UJ	940.	UJ	
93-65-2	MCPP	3300.	J	940.	U	940.	U	940.	U	940.	U	
94-75-7	2,4-D	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 METAL						
SAMPLE ID ------->	007-S-0003-01	007-S-0003-08	007-S-0003-10	007-S-0004-01	007-S-0004-09	007-S-0004-19
ORIGINAL ID ----->	007S000301	007S000308	007S000310	007S000401	007S000409	007S000419
LAB SAMPLE ID --->	2-116656S	2-116657S	2-116658S	3-116707S	3-116708S	3-116709S
SAMPLE DATE ----->	02/08/95	02/08/95	02/08/95	02/09/95	02/09/95	02/09/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
SB Antimony	9.9 UJ	10.3 UJ	10.2 UJ	10.2 UJ	10.2 UJ	9.9 UJ
AS Arsenic	8.9 J	11.9 J	8.2 J	12.8 J	10.4 J	7.9 J
BA Barium	113.	216.	82.4	131.	187.	102.
BE Beryllium	0.58 J	0.61 J	0.38 J	0.62 J	0.59 J	0.63 J
CD Cadmium	3.1	4.4	3.2	3.9	3.6	2.7
CR Chromium	13.4	14.3	10.9	13.9	15.6	18.3
CO Cobalt	9.9 J	9.5 J	7.2 J	11.7 J	8.6 J	7.7 J
CU Copper	16.5	20.6	16.5	19.8	19.1	13.3
PB Lead	10.9 J	11.4 J	8.4 J	14.2 J	12.2 J	9.6 J
HG Mercury	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
NI Nickel	19.9	28.	19.3	22.5	23.8	15.2
SE Selenium	0.49 U	0.52 U	0.51 U	0.51 U	0.51 UJ	0.5 UJ
AG Silver	0.74 UJ	0.78 UJ	0.77 UJ	0.76 UJ	0.77 UJ	0.75 UJ
TL Thallium	0.49 U	0.52 U	0.51 U	0.51 U	0.51 U	0.5 U
V Vanadium	32.	34.8	17.3	31.8	31.7	33.3
ZN Zinc	52.9	71.6	50.	67.8	62.8	38.4
SN Tin	13. U	6.2 U	4.8 U	3.8 U	4.2 U	3.7 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 METAL													
	SAMPLE ID ------->	007-C-0004-19		007-S-0005-01		007-S-0005-10		007-S-0005-27		007-S-0006-01		007-S-0006-11	
	ORIGINAL ID ----->	007C000419		007S000501		007S000510		007S000527		007S000601		007S000611	
	LAB SAMPLE ID --->	3-116710S		3-116711S		3-116712S		3-116713S		4-116766S		4-116767S	
	SAMPLE DATE ----->	02/09/95		02/09/95		02/09/95		02/09/95		02/10/95		02/10/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	10.	UJ	9.8	UJ	10.4	UJ	10.6	UJ	10.3	UJ	10.4	UJ
AS	Arsenic	5.1	J	14.	J	10.2	J	7.6	J	11.9	J	11.8	J
BA	Barium	91.9		128.		176.		84.5		136.		173.	
BE	Beryllium	0.59	J	0.65	J	0.55	J	0.72	J	0.57	J	0.57	J
CD	Cadmium	2.		4.2		4.		3.7		3.9		3.6	
CR	Chromium	17.4		16.5		13.		10.9		12.4		13.1	
CO	Cobalt	8.3	J	10.6	J	8.	J	8.5	J	9.3	J	8.5	J
CU	Copper	11.7		18.4		18.6		17.1		18.1		19.5	
PB	Lead	7.6	J	16.1	J	10.1	J	10.	J	14.4	J	14.2	J
HG	Mercury	0.12	U	0.12	U	0.12	U	0.13	U	0.12	U	0.12	U
NI	Nickel	17.1		23.7		22.3		12.7		19.4		23.2	
SE	Selenium	0.5	UJ	0.49	UJ	0.52	U	0.53	U	0.59	U	0.52	U
AG	Silver	0.75	UJ	0.73	UJ	0.78	UJ	0.79	UJ	0.77	UJ	0.78	UJ
TL	Thallium	0.5	U	0.49	U	0.52	U	0.53	U	0.51	U	0.52	U
V	Vanadium	31.7		34.9		28.		24.8		24.6		20.	
ZN	Zinc	35.8		68.5		64.6		40.1		61.		55.5	
SN	Tin	3.8	U	3.7	U	3.9	U	4.	U	5.2	U	12.2	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 METAL													
	SAMPLE ID ------->	007-S-0006-24		007-S-0007-01		007-S-0007-10		007-S-0007-32		007-C-0007-32			
	ORIGINAL ID ----->	007S000624		007S000701		007S000710		007S000732		007C000732			
	LAB SAMPLE ID --->	4-116768S		4-116769S		4-116770S		4-116771S		4-116772S			
	SAMPLE DATE ----->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil			
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A		
CAS #	Parameter												
SB	Antimony	10.2	UJ	10.	UJ	10.5	UJ	10.1	UJ	10.	UJ		
AS	Arsenic	5.3	J	10.4	J	11.7	J	4.7	J	3.5	J		
BA	Barium	81.4		137.		130.		78.4		100.			
BE	Beryllium	0.52	J	0.4	J	0.43	J	0.61	J	0.67	J		
CD	Cadmium	1.9		3.1		3.3		2.3		2.5			
CR	Chromium	14.		11.5		10.9		12.6		14.8			
CO	Cobalt	6.8	J	10.6	J	10.2	J	5.3	J	7.4	J		
CU	Copper	13.2		21.2		17.7		13.3		17.5			
PB	Lead	7.7	J	132.	J	12.9	J	7.1	J	10.9	J		
HG	Mercury	0.12	U	0.12	U	0.13	U	0.12	U	0.12	U		
NI	Nickel	14.3		15.9		24.6		12.8		16.8			
SE	Selenium	0.51	U	0.5	U	0.53	U	0.5	U	0.5	U		
AG	Silver	0.77	UJ	0.75	UJ	0.79	UJ	0.75	UJ	0.75	UJ		
TL	Thallium	0.51	U	0.5	U	0.53	U	0.5	U	0.5	U		
V	Vanadium	24.6		17.4		18.1		25.4		28.7			
ZN	Zinc	37.4		154.		59.9		28.2		36.4			
SN	Tin	7.	U	13.3	U	6.2	U	3.8	U	4.2	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 METAL-CN						
SAMPLE ID ------->	007-S-0003-01	007-S-0003-08	007-S-0003-10	007-S-0004-01	007-S-0004-09	007-S-0004-19
ORIGINAL ID ----->	007S000301	007S000308	007S000310	007S000401	007S000409	007S000419
LAB SAMPLE ID --->	116653	116654	116655	116700	116701	116702
SAMPLE DATE ----->	02/08/95	02/08/95	02/08/95	02/09/95	02/09/95	02/09/95
DATE EXTRACTED -->	02/10/95	02/10/95	02/10/95	02/15/95	02/15/95	02/15/95
DATE ANALYZED --->	02/14/95	02/14/95	02/14/95	02/17/95	02/17/95	02/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.49 U	0.38 U	0.42 U	0.56 U	0.6 U	0.55 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 METAL-CN						
SAMPLE ID ------->	007-C-0004-19	007-S-0005-01	007-S-0005-10	007-S-0005-27	007-S-0006-01	007-S-0006-11
ORIGINAL ID ----->	007C000419	007S000501	007S000510	007S000527	007S000601	007S000611
LAB SAMPLE ID --->	116703	116704	116705	116706	116758	116759
SAMPLE DATE ----->	02/09/95	02/09/95	02/09/95	02/09/95	02/10/95	02/10/95
DATE EXTRACTED -->	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95
DATE ANALYZED --->	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
CN Cyanide	0.6 U	0.58 U	0.59 U	0.65 U	0.59 U	0.61 U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 METAL-CN						
SAMPLE ID ------->	007-S-0006-24	007-S-0007-01	007-S-0007-10	007-S-0007-32	007-C-0007-32	
ORIGINAL ID ----->	007S000624	007S000701	007S000710	007S000732	007C000732	
LAB SAMPLE ID --->	116760	116761	116762	116763	116764	
SAMPLE DATE ----->	02/10/95	02/10/95	02/10/95	02/10/95	02/10/95	
DATE EXTRACTED -->	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95	
DATE ANALYZED --->	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95	
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	
CAS # Parameter						
CN Cyanide	0.63 U	0.52 U	0.62 U	0.58 U	0.62 U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 OP PEST													
	SAMPLE ID ------->	007-S-0003-01		007-S-0003-08		007-S-0003-10		007-S-0004-01		007-S-0004-09		007-S-0004-19	
	ORIGINAL ID ----->	007S000301		007S000308		007S000310		007S000401		007S000409		007S000419	
	LAB SAMPLE ID --->	116653		116654		116655		116700		116701		116702	
	SAMPLE DATE ----->	02/08/95		02/08/95		02/08/95		02/09/95		02/09/95		02/09/95	
	DATE EXTRACTED -->	02/14/95		02/14/95		02/14/95		02/23/95		02/23/95		02/23/95	
	DATE ANALYZED --->	02/28/95		02/28/95		03/01/95		03/02/95		03/02/95		03/02/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	210.	UJ	210.	UJ	210.	UJ	210.	UJ	210.	UJ	200.	UJ
35400-43-2	Sulprofos	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
2921-88-2	Chloropyrifos	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
56-72-4	Coumaphos	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ
8065-48-3	Demeton,O	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
333-41-5	Diazinon	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
62-73-7	Dichlorvos	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ
298-04-4	Disulfoton	100.	U	110.	U	110.	U	110.	U	110.	U	100.	U
13194-48-4	Ethoprop	100.	U	110.	U	110.	U	110.	U	110.	U	100.	U
115-90-2	Fensulfothion	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ
55-38-9	Fenthion	100.	U	110.	U	110.	U	110.	U	110.	U	100.	U
150-50-5	Merphos	100.	UR	110.	UR	110.	UR	110.	UR	110.	UR	100.	UR
7786-34-7	Mevinphos, Alpha	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ
300-76-5	Naled	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
298-00-0	Methyl parathion	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
298-02-2	Phorate	100.	U	110.	U	110.	U	110.	U	110.	U	100.	U
299-84-3	Ronnel	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	100.	UJ	110.	UJ	110.	UJ	110.	UJ	110.	UJ	100.	UJ
34643-46-4	Tokuthion	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U
327-98-0	Trichloronate	100.	U	110.	U	110.	U	110.	U	110.	U	100.	U
126-75-0	Demeton,S	100.	UJ	110.	UJ	110.	UJ	110.	U	110.	U	100.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 OP PEST													
	SAMPLE ID ------->	007-C-0004-19		007-S-0005-01		007-S-0005-10		007-S-0005-27		007-S-0006-01		007-S-0006-11	
	ORIGINAL ID ----->	007C000419		007S000501		007S000510		007S000527		007S000601		007S000611	
	LAB SAMPLE ID --->	116703		116704		116705		116706		116758		116759	
	SAMPLE DATE ----->	02/09/95		02/09/95		02/09/95		02/09/95		02/10/95		02/10/95	
	DATE EXTRACTED -->	02/23/95		02/23/95		02/23/95		02/23/95		02/23/95		02/23/95	
	DATE ANALYZED --->	03/02/95		03/02/95		03/02/95		03/02/95		03/02/95		03/02/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
86-50-0	Guthion	210.	UJ	200.	UJ	220.	UJ	220.	UJ	210.	UJ	210.	UJ
35400-43-2	Sulprofos	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
2921-88-2	Chloropyrifos	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
56-72-4	Coumaphos	110.	UJ	100.	UJ	110.	UJ	110.	UJ	100.	UJ	110.	UJ
8065-48-3	Demeton,O	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
333-41-5	Diazinon	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
62-73-7	Dichlorvos	110.	UJ	100.	UJ	110.	UJ	110.	UJ	100.	UJ	110.	UJ
298-04-4	Disulfoton	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
13194-48-4	Ethoprop	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
115-90-2	Fensulfothion	110.	UJ	100.	UJ	110.	UJ	110.	UJ	100.	UJ	110.	UJ
55-38-9	Fenthion	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
150-50-5	Merphos	110.	UR	100.	UR	110.	UR	110.	UR	100.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	110.	UJ	100.	UJ	110.	UJ	110.	UJ	100.	UJ	110.	UJ
300-76-5	Naled	110.	U	100.	UR	110.	UJ	110.	UJ	100.	UJ	110.	UJ
298-00-0	Methyl parathion	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
298-02-2	Phorate	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
299-84-3	Ronnel	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	UJ	100.	UJ	110.	UJ	110.	UJ	100.	UJ	110.	UJ
34643-46-4	Tokuthion	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
327-98-0	Trichloronate	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U
126-75-0	Demeton,S	110.	U	100.	U	110.	U	110.	U	100.	U	110.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 OP PEST											
	SAMPLE ID ------->	007-S-0006-24		007-S-0007-01		007-S-0007-10		007-S-0007-32		007-C-0007-32	
	ORIGINAL ID ----->	007S000624		007S000701		007S000710		007S000732		007C000732	
	LAB SAMPLE ID --->	116760		116761		116762		116763		116764	
	SAMPLE DATE ----->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95	
	DATE EXTRACTED -->	02/23/95		02/23/95		02/23/95		02/23/95		02/23/95	
	DATE ANALYZED --->	03/02/95		03/02/95		03/02/95		03/03/95		03/03/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter										
86-50-0	Guthion	210.	UJ	210.	UJ	220.	UJ	200.	UJ	210.	UJ
35400-43-2	Sulprofos	110.	U	100.	U	110.	U	100.	U	100.	U
2921-88-2	Chloropyrifos	110.	U	100.	U	110.	U	100.	U	100.	U
56-72-4	Coumaphos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
8065-48-3	Demeton,O	110.	U	100.	U	110.	U	100.	U	100.	U
333-41-5	Diazinon	110.	U	100.	U	110.	U	100.	U	100.	U
62-73-7	Dichlorvos	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
298-04-4	Disulfoton	110.	U	100.	U	110.	U	100.	U	100.	U
13194-48-4	Ethoprop	110.	U	100.	U	110.	U	100.	U	100.	U
115-90-2	Fensulfothion	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
55-38-9	Fenthion	110.	U	100.	U	110.	U	100.	U	100.	U
150-50-5	Merphos	110.	UR	100.	UR	110.	UR	100.	UR	100.	UR
7786-34-7	Mevinphos, Alpha	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
300-76-5	Naled	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
298-00-0	Methyl parathion	110.	U	100.	U	110.	U	100.	U	100.	U
298-02-2	Phorate	110.	U	100.	U	110.	U	100.	U	100.	U
299-84-3	Ronnel	110.	U	100.	U	110.	U	100.	U	100.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	110.	UJ	100.	UJ	110.	UJ	100.	UJ	100.	UJ
34643-46-4	Tokuthion	110.	U	100.	U	110.	U	100.	U	100.	U
327-98-0	Trichloronate	110.	U	100.	U	110.	U	100.	U	100.	U
126-75-0	Demeton,S	110.	U	100.	U	110.	U	100.	U	100.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 PEST													
	SAMPLE ID ------->	007-S-0003-01		007-S-0003-08		007-S-0003-10		007-S-0004-01		007-S-0004-09		007-S-0004-19	
	ORIGINAL ID ----->	007S000301		007S000308		007S000310		007S000401		007S000409		007S000419	
	LAB SAMPLE ID --->	116656		116657		116658		116707		116708		116709	
	SAMPLE DATE ----->	02/08/95		02/08/95		02/08/95		02/09/95		02/09/95		02/09/95	
	DATE EXTRACTED -->	02/19/95		02/19/95		02/19/95		02/19/95		02/19/95		02/19/95	
	DATE ANALYZED --->	02/25/95		02/25/95		02/25/95		02/25/95		02/25/95		02/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
319-85-7	beta-BHC	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
319-86-8	delta-BHC	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
58-89-9	gamma-BHC (Lindane)	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
76-44-8	Heptachlor	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
309-00-2	Aldrin	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
1024-57-3	Heptachlor epoxide	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
959-98-8	Endosulfan I	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
60-57-1	Dieldrin	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
72-55-9	4,4'-DDE	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
72-20-8	Endrin	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
33213-65-9	Endosulfan II	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
72-54-8	4,4'-DDD	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
1031-07-8	Endosulfan sulfate	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
50-29-3	4,4'-DDT	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
72-43-5	Methoxychlor	34.	U	30.	U	27.	U	30.	U	33.	U	30.	U
53494-70-5	Endrin ketone	6.6	U	5.9	U	5.2	U	5.9	U	6.3	U	5.9	U
7421-36-3	Endrin aldehyde	6.6	UJ	5.9	UJ	5.2	UJ	5.9	UJ	6.3	UJ	5.9	UJ
5103-71-9	alpha-Chlordane	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
5103-74-2	gamma-Chlordane	3.4	U	3.	U	2.7	U	3.	U	3.3	U	3.	U
8001-35-2	Toxaphene	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U
12674-11-2	Aroclor-1016	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U
11104-28-2	Aroclor-1221	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U
11141-16-5	Aroclor-1232	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U
53469-21-9	Aroclor-1242	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U
12672-29-6	Aroclor-1248	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U
11097-69-1	Aroclor-1254	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U
11096-82-5	Aroclor-1260	66.	U	59.	U	52.	U	59.	U	63.	U	59.	U

*** Validation Complete ***

FD1325 PEST													
	SAMPLE ID ------->	007-C-0004-19		007-S-0005-01		007-S-0005-10		007-S-0005-27		007-S-0006-01		007-S-0006-11	
	ORIGINAL ID ----->	007C000419		007S000501		007S000510		007S000527		007S000601		007S000611	
	LAB SAMPLE ID --->	116710		116711		116712		116713		116766		116767	
	SAMPLE DATE ----->	02/09/95		02/09/95		02/09/95		02/09/95		02/10/95		02/10/95	
	DATE EXTRACTED -->	02/19/95		02/19/95		02/19/95		02/19/95		02/22/95		02/22/95	
	DATE ANALYZED --->	02/25/95		02/25/95		02/25/95		02/25/95		02/25/95		02/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
319-85-7	beta-BHC	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
319-86-8	delta-BHC	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
58-89-9	gamma-BHC (Lindane)	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
76-44-8	Heptachlor	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
309-00-2	Aldrin	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
1024-57-3	Heptachlor epoxide	2.9	U	4.6	J	3.5	U	3.5	U	2.1	U	2.	U
959-98-8	Endosulfan I	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
60-57-1	Dieldrin	5.7	U	6.7	U	6.7	U	6.9	U	4.1	U	3.9	U
72-55-9	4,4'-DDE	5.7	U	6.7	U	6.7	U	6.9	U	4.1	U	3.9	U
72-20-8	Endrin	5.7	U	6.7	U	6.7	U	6.9	U	4.1	U	3.9	U
33213-65-9	Endosulfan II	5.7	U	6.7	U	6.7	U	6.9	U	4.1	U	3.9	U
72-54-8	4,4'-DDD	5.7	U	6.7	U	6.7	U	6.9	U	4.1	U	3.9	U
1031-07-8	Endosulfan sulfate	5.7	U	6.7	UJ	6.7	U	6.9	U	4.1	U	3.9	U
50-29-3	4,4'-DDT	5.7	U	6.7	U	6.7	U	6.9	U	4.1	U	3.9	U
72-43-5	Methoxychlor	29.	U	35.	U	35.	U	35.	U	21.	U	20.	U
53494-70-5	Endrin ketone	5.7	U	6.7	U	6.7	U	6.9	U	4.1	U	3.9	U
7421-36-3	Endrin aldehyde	5.7	UJ	6.7	UJ	6.7	UJ	6.9	UJ	4.1	UJ	3.9	UJ
5103-71-9	alpha-Chlordane	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
5103-74-2	gamma-Chlordane	2.9	U	3.5	U	3.5	U	3.5	U	2.1	U	2.	U
8001-35-2	Toxaphene	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U
12674-11-2	Aroclor-1016	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U
11104-28-2	Aroclor-1221	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U
11141-16-5	Aroclor-1232	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U
53469-21-9	Aroclor-1242	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U
12672-29-6	Aroclor-1248	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U
11097-69-1	Aroclor-1254	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U
11096-82-5	Aroclor-1260	57.	U	67.	U	67.	U	69.	U	41.	U	39.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 PEST												
	SAMPLE ID ------->	007-S-0006-24		007-S-0007-01		007-S-0007-10		007-S-0007-32		007-C-0007-32		
	ORIGINAL ID ----->	007S000624		007S000701		007S000710		007S000732		007C000732		
	LAB SAMPLE ID --->	116768		116769_10		116770		116771		116772		
	SAMPLE DATE ----->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95		
	DATE EXTRACTED -->	02/22/95		02/22/95		02/22/95		02/22/95		02/22/95		
	DATE ANALYZED --->	02/25/95		02/26/95		02/25/95		02/25/95		02/25/95		
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	
CAS #	Parameter											
319-84-6	alpha-BHC	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
319-85-7	beta-BHC	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
319-86-8	delta-BHC	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
58-89-9	gamma-BHC (Lindane)	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
76-44-8	Heptachlor	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
309-00-2	Aldrin	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
1024-57-3	Heptachlor epoxide	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
959-98-8	Endosulfan I	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
60-57-1	Dieldrin	4.2	U	55.	J	4.3	U	4.1	U	4.	U	
72-55-9	4,4'-DDE	4.2	U	40.	U	4.3	U	4.1	U	4.	U	
72-20-8	Endrin	4.2	U	40.	U	4.3	U	4.1	U	4.	U	
33213-65-9	Endosulfan II	4.2	U	40.	U	4.3	U	4.1	U	4.	U	
72-54-8	4,4'-DDD	4.2	U	40.	U	4.3	U	4.1	U	4.	U	
1031-07-8	Endosulfan sulfate	4.2	U	40.	U	4.3	U	4.1	U	4.	U	
50-29-3	4,4'-DDT	4.2	U	40.	U	4.3	U	4.1	U	4.	U	
72-43-5	Methoxychlor	22.	U	200.	U	22.	U	21.	U	21.	U	
53494-70-5	Endrin ketone	4.2	U	40.	U	4.3	U	4.1	U	4.	U	
7421-36-3	Endrin aldehyde	4.2	UJ	40.	UJ	4.3	UJ	4.1	UJ	4.	UJ	
5103-71-9	alpha-Chlordane	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
5103-74-2	gamma-Chlordane	2.2	U	20.	U	2.2	U	2.1	U	2.1	U	
8001-35-2	Toxaphene	42.	U	400.	U	43.	U	41.	U	40.	U	
12674-11-2	Aroclor-1016	42.	U	400.	U	43.	U	41.	U	40.	U	
11104-28-2	Aroclor-1221	42.	U	400.	U	43.	U	41.	U	40.	U	
11141-16-5	Aroclor-1232	42.	U	400.	U	43.	U	41.	U	40.	U	
53469-21-9	Aroclor-1242	42.	U	400.	U	43.	U	41.	U	40.	U	
12672-29-6	Aroclor-1248	42.	U	400.	U	43.	U	41.	U	40.	U	
11097-69-1	Aroclor-1254	42.	U	400.	U	43.	U	41.	U	40.	U	
11096-82-5	Aroclor-1260	42.	U	20000.	DJ	43.	U	41.	U	40.	U	

*** Validation Complete ***

FD1325 SVOA						
SAMPLE ID ------->	007-S-0003-01	007-S-0003-08	007-S-0003-10	007-S-0004-01RE	007-S-0004-09	007-S-0004-19
ORIGINAL ID ----->	007S000301	007S000308	007S000310	007S000401RE	007S000409	007S000419
LAB SAMPLE ID --->	116656	116657	116658	116707RE	116708	116709
SAMPLE DATE ----->	02/08/95	02/08/95	02/08/95	02/09/95	02/09/95	02/09/95
DATE EXTRACTED -->	02/17/95	02/17/95	02/17/95	02/26/95	02/17/95	02/17/95
DATE ANALYZED --->	02/23/95	02/23/95	02/23/95	03/03/95	02/23/95	02/23/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A

CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
67-72-1	Hexachloroethane	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
78-59-1	Isophorone	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
88-75-5	2-Nitrophenol	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
105-67-9	2,4-Dimethylphenol	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
111-91-1	bis(2-Chloroethoxy)methane	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
120-83-2	2,4-Dichlorophenol	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
120-82-1	1,2,4-Trichlorobenzene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
91-20-3	Naphthalene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
106-47-8	4-Chloroaniline	400.	U	400.	U	400.	U	420.	UJ	420.	UJ	410.	UJ
87-68-3	Hexachlorobutadiene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
59-50-7	4-Chloro-3-methylphenol	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
91-57-6	2-Methylnaphthalene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
77-47-4	Hexachlorocyclopentadiene	400.	UJ	400.	UJ	400.	UJ	420.	UJ	420.	UJ	410.	UJ
88-06-2	2,4,6-Trichlorophenol	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
95-95-4	2,4,5-Trichlorophenol	970.	U	970.	U	970.	U	1000.	UJ	1000.	U	980.	U
91-58-7	2-Chloronaphthalene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
88-74-4	2-Nitroaniline	970.	U	970.	U	970.	U	1000.	UJ	1000.	U	980.	U
131-11-3	Dimethylphthalate	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
208-96-8	Acenaphthylene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
606-20-2	2,6-Dinitrotoluene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
99-09-2	3-Nitroaniline	970.	U	970.	U	970.	U	1000.	UJ	1000.	U	980.	U
83-32-9	Acenaphthene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
51-28-5	2,4-Dinitrophenol	970.	U	970.	U	970.	U	1000.	UJ	1000.	UJ	980.	UJ
100-02-7	4-Nitrophenol	970.	U	970.	U	970.	U	1000.	UJ	1000.	UJ	980.	UJ
132-64-9	Dibenzofuran	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
121-14-2	2,4-Dinitrotoluene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
84-66-2	Diethylphthalate	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
7005-72-3	4-Chlorophenylphenylether	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
86-73-7	Fluorene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
100-01-6	4-Nitroaniline	970.	U	970.	U	970.	U	1000.	UJ	1000.	U	980.	U
534-52-1	4,6-Dinitro-2-methylphenol	970.	U	970.	U	970.	U	1000.	UJ	1000.	U	980.	U
86-30-6	N-Nitrosodiphenylamine	400.	U	400.	U	400.	U	420.	UJ	420.	UJ	410.	UJ
101-55-3	4-Bromophenylphenylether	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
118-74-1	Hexachlorobenzene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U
87-86-5	Pentachlorophenol	970.	U	970.	U	970.	U	1000.	UJ	1000.	U	980.	U
85-01-8	Phenanthrene	400.	U	400.	U	400.	U	420.	UJ	420.	U	410.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 SVOA						
SAMPLE ID ------->	007-S-0003-01	007-S-0003-08	007-S-0003-10	007-S-0004-01RE	007-S-0004-09	007-S-0004-19
ORIGINAL ID ----->	007S000301	007S000308	007S000310	007S000401RE	007S000409	007S000419
LAB SAMPLE ID --->	116656	116657	116658	116707RE	116708	116709
SAMPLE DATE ----->	02/08/95	02/08/95	02/08/95	02/09/95	02/09/95	02/09/95
DATE EXTRACTED -->	02/17/95	02/17/95	02/17/95	02/26/95	02/17/95	02/17/95
DATE ANALYZED --->	02/23/95	02/23/95	02/23/95	03/03/95	02/23/95	02/23/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
120-12-7 Anthracene	400. U	400. U	400. U	420. UJ	420. U	410. U
86-74-8 Carbazole	400. U	400. U	400. U	420. UJ	420. U	410. U
84-74-2 Di-n-butylphthalate	400. U	400. U	400. U	420. UJ	420. U	410. U
206-44-0 Fluoranthene	400. U	400. U	400. U	420. UJ	420. U	410. U
129-00-0 Pyrene	400. U	400. U	400. U	420. UJ	420. U	410. U
85-68-7 Butylbenzylphthalate	400. U	400. U	400. U	420. UJ	420. U	410. U
91-94-1 3,3'-Dichlorobenzidine	400. U	400. U	400. U	420. UJ	420. U	410. U
56-55-3 Benzo(a)anthracene	400. U	400. U	400. U	420. UJ	420. U	410. U
218-01-9 Chrysene	400. U	400. U	400. U	420. UJ	420. U	410. U
117-81-7 bis(2-Ethylhexyl)phthalate (BEHP)	400. U	400. U	400. U	49. J	420. UJ	410. UJ
117-84-0 Di-n-octylphthalate	400. U	400. U	400. U	420. UJ	420. UJ	410. UJ
205-99-2 Benzo(b)fluoranthene	400. U	400. U	400. U	420. UJ	420. U	410. U
207-08-9 Benzo(k)fluoranthene	400. U	400. U	400. U	420. UJ	420. U	410. U
50-32-8 Benzo(a)pyrene	400. U	400. U	400. U	420. UJ	420. U	410. U
193-39-5 Indeno(1,2,3-cd)pyrene	400. U	400. U	400. U	420. UJ	420. U	410. U
53-70-3 Dibenzo(a,h)anthracene	400. U	400. U	400. U	420. UJ	420. U	410. U
191-24-2 Benzo(g,h,i)perylene	400. U	400. U	400. U	420. UJ	420. U	410. U
108-95-2 Phenol	400. U	400. U	400. U	420. UJ	420. U	410. U
111-44-4 bis(2-Chloroethyl)ether	400. U	400. U	400. U	420. UJ	420. U	410. U
95-57-8 2-Chlorophenol	400. U	400. U	400. U	420. UJ	420. U	410. U
541-73-1 1,3-Dichlorobenzene	400. U	400. U	400. U	420. UJ	420. U	410. U
106-46-7 1,4-Dichlorobenzene	400. U	400. U	400. U	420. UJ	420. U	410. U
95-50-1 1,2-Dichlorobenzene	400. U	400. U	400. U	420. UJ	420. U	410. U
95-48-7 2-Methylphenol (o-Cresol)	400. U	400. U	400. U	420. UJ	420. U	410. U
108-60-1 2,2'-oxybis(1-Chloropropane)	400. U	400. U	400. U	420. UJ	420. U	410. U
106-44-5 4-Methylphenol (p-Cresol)	400. U	400. U	400. U	420. UJ	420. U	410. U
98-95-3 Nitrobenzene	400. U	400. U	400. U	420. UJ	420. U	410. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 SVOA													
	SAMPLE ID ------->	007-C-0004-19		007-S-0005-01		007-S-0005-10		007-S-0005-27		007-S-0006-01		007-S-0006-11	
	ORIGINAL ID ----->	007C000419		007S000501		007S000510		007S000527		007S000601		007S000611	
	LAB SAMPLE ID --->	116710		116711		116712		116713		116766		116767	
	SAMPLE DATE ----->	02/09/95		02/09/95		02/09/95		02/09/95		02/10/95		02/10/95	
	DATE EXTRACTED -->	02/17/95		02/17/95		02/17/95		02/17/95		02/22/95		02/22/95	
	DATE ANALYZED --->	02/23/95		02/23/95		02/23/95		02/23/95		02/27/95		02/27/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
67-72-1	Hexachloroethane	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
78-59-1	Isophorone	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
88-75-5	2-Nitrophenol	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
105-67-9	2,4-Dimethylphenol	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
111-91-1	bis(2-Chloroethoxy)methane	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
120-83-2	2,4-Dichlorophenol	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
91-20-3	Naphthalene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
106-47-8	4-Chloroaniline	410.	UJ	410.	UJ	420.	UJ	420.	UJ	420.	U	430.	U
87-68-3	Hexachlorobutadiene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
59-50-7	4-Chloro-3-methylphenol	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
91-57-6	2-Methylnaphthalene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
77-47-4	Hexachlorocyclopentadiene	410.	UJ	410.	UJ	420.	UJ	420.	UJ	420.	UJ	430.	UJ
88-06-2	2,4,6-Trichlorophenol	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
95-95-4	2,4,5-Trichlorophenol	980.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
91-58-7	2-Chloronaphthalene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
88-74-4	2-Nitroaniline	980.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
131-11-3	Dimethylphthalate	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
208-96-8	Acenaphthylene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
606-20-2	2,6-Dinitrotoluene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
99-09-2	3-Nitroaniline	980.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
83-32-9	Acenaphthene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
51-28-5	2,4-Dinitrophenol	980.	UJ	990.	UJ	1000.	UJ	1000.	UJ	1000.	U	1000.	U
100-02-7	4-Nitrophenol	980.	UJ	990.	UJ	1000.	UJ	1000.	UJ	1000.	U	1000.	U
132-64-9	Dibenzofuran	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
121-14-2	2,4-Dinitrotoluene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
84-66-2	Diethylphthalate	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
7005-72-3	4-Chlorophenylphenylether	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
86-73-7	Fluorene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
100-01-6	4-Nitroaniline	980.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
534-52-1	4,6-Dinitro-2-methylphenol	980.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	410.	UJ	410.	UJ	420.	UJ	420.	UJ	420.	U	430.	U
101-55-3	4-Bromophenylphenylether	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
118-74-1	Hexachlorobenzene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
87-86-5	Pentachlorophenol	980.	U	990.	U	1000.	U	1000.	U	1000.	U	1000.	U
85-01-8	Phenanthrene	410.	U	61.	J	420.	U	420.	U	420.	U	430.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 SVOA													
	SAMPLE ID ------->	007-C-0004-19		007-S-0005-01		007-S-0005-10		007-S-0005-27		007-S-0006-01		007-S-0006-11	
	ORIGINAL ID ----->	007C000419		007S000501		007S000510		007S000527		007S000601		007S000611	
	LAB SAMPLE ID --->	116710		116711		116712		116713		116766		116767	
	SAMPLE DATE ----->	02/09/95		02/09/95		02/09/95		02/09/95		02/10/95		02/10/95	
	DATE EXTRACTED -->	02/17/95		02/17/95		02/17/95		02/17/95		02/22/95		02/22/95	
	DATE ANALYZED --->	02/23/95		02/23/95		02/23/95		02/23/95		02/27/95		02/27/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
86-74-8	Carbazole	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
84-74-2	Di-n-butylphthalate	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
206-44-0	Fluoranthene	410.	U	160.	J	420.	U	420.	U	420.	U	430.	U
129-00-0	Pyrene	410.	U	110.	J	420.	U	420.	U	420.	U	430.	U
85-68-7	Butylbenzylphthalate	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
91-94-1	3,3'-Dichlorobenzidine	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
56-55-3	Benzo(a)anthracene	410.	U	74.	J	420.	U	420.	U	420.	U	430.	U
218-01-9	Chrysene	410.	U	78.	J	420.	U	420.	U	420.	U	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	410.	UJ	410.	UJ	420.	UJ	420.	UJ	420.	U	430.	U
117-84-0	Di-n-octylphthalate	410.	UJ	410.	UJ	420.	UJ	420.	UJ	420.	U	430.	U
205-99-2	Benzo(b)fluoranthene	410.	U	60.	J	420.	U	420.	U	420.	U	430.	U
207-08-9	Benzo(k)fluoranthene	410.	U	71.	J	420.	U	420.	U	420.	UJ	430.	UJ
50-32-8	Benzo(a)pyrene	410.	U	70.	J	420.	U	420.	U	420.	U	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	410.	U	45.	J	420.	U	420.	U	420.	U	430.	U
53-70-3	Dibenzo(a,h)anthracene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
191-24-2	Benzo(g,h,i)perylene	410.	U	47.	J	420.	U	420.	U	420.	U	430.	U
108-95-2	Phenol	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
111-44-4	bis(2-Chloroethyl)ether	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
95-57-8	2-Chlorophenol	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
541-73-1	1,3-Dichlorobenzene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
106-46-7	1,4-Dichlorobenzene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
95-50-1	1,2-Dichlorobenzene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
95-48-7	2-Methylphenol (o-Cresol)	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
106-44-5	4-Methylphenol (p-Cresol)	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U
98-95-3	Nitrobenzene	410.	U	410.	U	420.	U	420.	U	420.	U	430.	U

*** Validation Complete ***

FD1325 SVOA													
	SAMPLE ID ------->	007-S-0006-24		007-S-0007-01		007-S-0007-10		007-S-0007-32		007-C-0007-32			
	ORIGINAL ID ----->	007S000624		007S000701		007S000710		007S000732		007C000732			
	LAB SAMPLE ID --->	116768		116769		116770		116771		116772			
	SAMPLE DATE ----->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95			
	DATE EXTRACTED -->	02/22/95		02/22/95		02/22/95		02/22/95		02/22/95			
	DATE ANALYZED --->	02/27/95		02/27/95		02/27/95		02/28/95		02/28/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	390.	U	4100.	U	430.	U	400.	U	400.	U		
67-72-1	Hexachloroethane	390.	U	4100.	U	430.	U	400.	U	400.	U		
78-59-1	Isophorone	390.	U	4100.	U	430.	U	400.	U	400.	U		
88-75-5	2-Nitrophenol	390.	U	4100.	U	430.	U	400.	U	400.	U		
105-67-9	2,4-Dimethylphenol	390.	U	4100.	U	430.	U	400.	U	400.	U		
111-91-1	bis(2-Chloroethoxy)methane	390.	U	4100.	U	430.	U	400.	U	400.	U		
120-83-2	2,4-Dichlorophenol	390.	U	4100.	U	430.	U	400.	U	400.	U		
120-82-1	1,2,4-Trichlorobenzene	390.	U	4100.	U	430.	U	400.	U	400.	U		
91-20-3	Naphthalene	390.	U	4100.	U	430.	U	400.	U	400.	U		
106-47-8	4-Chloroaniline	390.	U	4100.	U	430.	U	400.	U	400.	U		
87-68-3	Hexachlorobutadiene	390.	U	4100.	U	430.	U	400.	U	400.	U		
59-50-7	4-Chloro-3-methylphenol	390.	U	4100.	U	430.	U	400.	U	400.	U		
91-57-6	2-Methylnaphthalene	390.	U	4100.	U	430.	U	400.	U	400.	U		
77-47-4	Hexachlorocyclopentadiene	390.	UJ	4100.	UJ	430.	UJ	400.	UJ	400.	UJ		
88-06-2	2,4,6-Trichlorophenol	390.	U	4100.	U	430.	U	400.	U	400.	U		
95-95-4	2,4,5-Trichlorophenol	940.	U	10000.	U	1000.	U	970.	U	960.	U		
91-58-7	2-Chloronaphthalene	390.	U	4100.	U	430.	U	400.	U	400.	U		
88-74-4	2-Nitroaniline	940.	U	10000.	U	1000.	U	970.	U	960.	U		
131-11-3	Dimethylphthalate	390.	U	4100.	U	430.	U	400.	U	400.	U		
208-96-8	Acenaphthylene	390.	U	4100.	U	430.	U	400.	U	400.	U		
606-20-2	2,6-Dinitrotoluene	390.	U	4100.	U	430.	U	400.	U	400.	U		
99-09-2	3-Nitroaniline	940.	U	10000.	U	1000.	U	970.	U	960.	U		
83-32-9	Acenaphthene	390.	U	4100.	U	430.	U	400.	U	400.	U		
51-28-5	2,4-Dinitrophenol	940.	U	10000.	U	1000.	U	970.	U	960.	U		
100-02-7	4-Nitrophenol	940.	U	10000.	U	1000.	U	970.	U	960.	U		
132-64-9	Dibenzofuran	390.	U	4100.	U	430.	U	400.	U	400.	U		
121-14-2	2,4-Dinitrotoluene	390.	U	4100.	U	430.	U	400.	U	400.	U		
84-66-2	Diethylphthalate	390.	U	4100.	U	430.	U	400.	U	400.	U		
7005-72-3	4-Chlorophenylphenylether	390.	U	4100.	U	430.	U	400.	U	400.	U		
86-73-7	Fluorene	390.	U	4100.	U	430.	U	400.	U	400.	U		
100-01-6	4-Nitroaniline	940.	U	10000.	U	1000.	U	970.	U	960.	U		
534-52-1	4,6-Dinitro-2-methylphenol	940.	U	10000.	U	1000.	U	970.	U	960.	U		
86-30-6	N-Nitrosodiphenylamine	390.	U	4100.	U	430.	U	400.	U	400.	U		
101-55-3	4-Bromophenylphenylether	390.	U	4100.	U	430.	U	400.	U	400.	U		
118-74-1	Hexachlorobenzene	390.	U	4100.	U	430.	U	400.	U	400.	U		
87-86-5	Pentachlorophenol	940.	U	10000.	U	1000.	U	970.	U	960.	U		
85-01-8	Phenanthrene	390.	U	4100.	U	430.	U	400.	U	400.	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 SVOA											
	SAMPLE ID ------->	007-S-0006-24		007-S-0007-01		007-S-0007-10		007-S-0007-32		007-C-0007-32	
	ORIGINAL ID ----->	007S000624		007S000701		007S000710		007S000732		007C000732	
	LAB SAMPLE ID --->	116768		116769		116770		116771		116772	
	SAMPLE DATE ----->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95	
	DATE EXTRACTED -->	02/22/95		02/22/95		02/22/95		02/22/95		02/22/95	
	DATE ANALYZED --->	02/27/95		02/27/95		02/27/95		02/28/95		02/28/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter										
120-12-7	Anthracene	390.	U	4100.	U	430.	U	400.	U	400.	U
86-74-8	Carbazole	390.	U	4100.	U	430.	U	400.	U	400.	U
84-74-2	Di-n-butylphthalate	390.	U	4100.	U	430.	U	400.	U	400.	U
206-44-0	Fluoranthene	390.	U	4100.	U	430.	U	400.	U	400.	U
129-00-0	Pyrene	390.	U	4100.	U	430.	U	400.	U	400.	U
85-68-7	Butylbenzylphthalate	390.	U	4100.	U	430.	U	400.	U	400.	U
91-94-1	3,3'-Dichlorobenzidine	390.	U	4100.	U	430.	U	400.	U	400.	U
56-55-3	Benzo(a)anthracene	390.	U	4100.	U	430.	U	400.	U	400.	U
218-01-9	Chrysene	390.	U	4100.	U	430.	U	400.	U	400.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	390.	U	4100.	U	430.	U	400.	U	400.	U
117-84-0	Di-n-octylphthalate	390.	U	4100.	U	430.	U	400.	U	400.	U
205-99-2	Benzo(b)fluoranthene	390.	U	4100.	U	430.	U	400.	U	400.	U
207-08-9	Benzo(k)fluoranthene	390.	UJ	4100.	UJ	430.	UJ	400.	UJ	400.	UJ
50-32-8	Benzo(a)pyrene	390.	U	4100.	U	430.	U	400.	U	400.	U
193-39-5	Indeno(1,2,3-cd)pyrene	390.	U	4100.	U	430.	U	400.	U	400.	U
53-70-3	Dibenzo(a,h)anthracene	390.	U	4100.	U	430.	U	400.	U	400.	U
191-24-2	Benzo(g,h,i)perylene	390.	U	4100.	U	430.	U	400.	U	400.	U
108-95-2	Phenol	390.	U	4100.	U	430.	U	400.	U	400.	U
111-44-4	bis(2-Chloroethyl)ether	390.	U	4100.	U	430.	U	400.	U	400.	U
95-57-8	2-Chlorophenol	390.	U	4100.	U	430.	U	400.	U	400.	U
541-73-1	1,3-Dichlorobenzene	390.	U	4100.	U	430.	U	400.	U	400.	U
106-46-7	1,4-Dichlorobenzene	390.	U	4100.	U	430.	U	400.	U	400.	U
95-50-1	1,2-Dichlorobenzene	390.	U	4100.	U	430.	U	400.	U	400.	U
95-48-7	2-Methylphenol (o-Cresol)	390.	U	4100.	U	430.	U	400.	U	400.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390.	U	4100.	U	430.	U	400.	U	400.	U
106-44-5	4-Methylphenol (p-Cresol)	390.	U	4100.	U	430.	U	400.	U	400.	U
98-95-3	Nitrobenzene	390.	U	4100.	U	430.	U	400.	U	400.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 TPH						
SAMPLE ID ------->	007-S-0003-01	007-S-0003-08	007-S-0003-10	007-S-0004-01	007-S-0004-09	007-S-0004-19
ORIGINAL ID ----->	007S000301	007S000308	007S000310	007S000401	007S000409	007S000419
LAB SAMPLE ID --->	116653	116654	116655	116700	116701	116702
SAMPLE DATE ----->	02/08/95	02/08/95	02/08/95	02/09/95	02/09/95	02/09/95
DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	82. U	85. U	84. U	85. U	84. U	82. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 TPH						
SAMPLE ID ------->	007-C-0004-19	007-S-0005-01	007-S-0005-10	007-S-0005-27	007-S-0006-01	007-S-0006-11
ORIGINAL ID ----->	007C000419	007S000501	007S000510	007S000527	007S000601	007S000611
LAB SAMPLE ID --->	116703	116704	116705	116706	116758	116759
SAMPLE DATE ----->	02/09/95	02/09/95	02/09/95	02/09/95	02/10/95	02/10/95
DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	83. U	81. U	87. U	88. U	83. U	885. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 TPH						
SAMPLE ID ------->	007-S-0006-24	007-S-0007-01	007-S-0007-10	007-S-0007-32	007-C-0007-32	
ORIGINAL ID ----->	007S000624	007S000701	007S000710	007S000732	007C000732	
LAB SAMPLE ID --->	116760	116761	116762	116763	116764	
SAMPLE DATE ----->	02/10/95	02/10/95	02/10/95	02/10/95	02/10/95	
DATE EXTRACTED -->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	
DATE ANALYZED --->	02/28/95	02/28/95	02/28/95	02/28/95	02/28/95	
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	85. U	1400.	87. U	82. U	83. U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 VOA													
	SAMPLE ID ------->	007-S-0003-01		007-S-0003-08		007-S-0003-10		007-S-0004-01		007-S-0004-09		007-S-0004-19	
	ORIGINAL ID ----->	007S000301		007S000308		007S000310		007S000401		007S000409		007S000419	
	LAB SAMPLE ID --->	116656		116657		116658		116707		116708		116709	
	SAMPLE DATE ----->	02/08/95		02/08/95		02/08/95		02/09/95		02/09/95		02/09/95	
	DATE ANALYZED --->	02/16/95		02/16/95		02/16/95		02/16/95		02/16/95		02/16/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	12.	U	12.	U	13.	U	6.	J	13.	U	11.	U
74-83-9	Bromomethane	12.	U	2.	J	4.	J	6.	J	13.	U	2.	JY
75-01-4	Vinyl chloride	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
75-00-3	Chloroethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
75-09-2	Methylene chloride	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
67-64-1	Acetone	16.	J	12.	UJ	13.	UJ	32.	J	17.	J	7.	J
75-15-0	Carbon disulfide	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
75-35-4	1,1-Dichloroethene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
75-34-3	1,1-Dichloroethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
67-66-3	Chloroform	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
107-06-2	1,2-Dichloroethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
78-93-3	2-Butanone (MEK)	12.	U	12.	U	13.	U	69.		13.	U	11.	U
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
56-23-5	Carbon tetrachloride	12.	UJ	12.	UJ	13.	UJ	13.	UJ	13.	UJ	11.	UJ
75-27-4	Bromodichloromethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
78-87-5	1,2-Dichloropropane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
79-01-6	Trichloroethene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
124-48-1	Dibromochloromethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
71-43-2	Benzene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
75-25-2	Bromoform	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
591-78-6	2-Hexanone	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
127-18-4	Tetrachloroethene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
108-88-3	Toluene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
108-90-7	Chlorobenzene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
100-41-4	Ethylbenzene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
100-42-5	Styrene	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U
1330-20-7	Xylene (Total)	12.	U	12.	U	13.	U	13.	U	13.	U	11.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1325 VOA													
	SAMPLE ID ------->	007-C-0004-19		007-S-0005-01		007-S-0005-10		007-S-0005-27		007-S-0006-01		007-S-0006-11	
	ORIGINAL ID ----->	007C000419		007S000501		007S000510		007S000527		007S000601		007S000611	
	LAB SAMPLE ID --->	116710		116711		116712		116713		116766		116767	
	SAMPLE DATE ----->	02/09/95		02/09/95		02/09/95		02/09/95		02/10/95		02/10/95	
	DATE ANALYZED --->	02/16/95		02/16/95		02/17/95		02/17/95		02/19/95		02/18/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	12.	U	12.	U	13.	U	13.	U	3.	J	13.	U
74-83-9	Bromomethane	2.	J	12.	U	13.	U	13.	U	12.	U	13.	U
75-01-4	Vinyl chloride	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-00-3	Chloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-09-2	Methylene chloride	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
67-64-1	Acetone	12.	UJ	45.	J	10.	J	13.	UJ	12.	UJ	14.	UJ
75-15-0	Carbon disulfide	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-35-4	1,1-Dichloroethene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-34-3	1,1-Dichloroethane	12.	U	12.	U	13.	UJ	13.	UJ	12.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
67-66-3	Chloroform	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
107-06-2	1,2-Dichloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
78-93-3	2-Butanone (MEK)	12.	U	12.	U	13.	UJ	13.	UJ	12.	UJ	13.	U
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
56-23-5	Carbon tetrachloride	12.	UJ	12.	UJ	13.	UJ	13.	UJ	12.	U	13.	U
75-27-4	Bromodichloromethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
78-87-5	1,2-Dichloropropane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
79-01-6	Trichloroethene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
124-48-1	Dibromochloromethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
71-43-2	Benzene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
75-25-2	Bromoform	12.	U	12.	U	13.	U	13.	U	12.	UJ	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	12.	U	13.	U	13.	U	12.	UJ	13.	U
591-78-6	2-Hexanone	12.	U	12.	U	13.	UJ	13.	UJ	12.	UJ	13.	U
127-18-4	Tetrachloroethene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	12.	U	13.	U	13.	U	12.	UJ	13.	U
108-88-3	Toluene	12.	U	12.	UJ	13.	U	13.	U	12.	U	13.	U
108-90-7	Chlorobenzene	12.	U	12.	UJ	13.	U	13.	U	12.	U	13.	U
100-41-4	Ethylbenzene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
100-42-5	Styrene	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U
1330-20-7	Xylene (Total)	12.	U	12.	U	13.	U	13.	U	12.	U	13.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1325 VOA													
	SAMPLE ID ------->	007-S-0006-24		007-S-0007-01		007-S-0007-10		007-S-0007-32		007-C-0007-32			
	ORIGINAL ID ----->	007S000624		007S000701		007S000710		007S000732		007C000732			
	LAB SAMPLE ID --->	116768		116769		116770		116771		116772			
	SAMPLE DATE ----->	02/10/95		02/10/95		02/10/95		02/10/95		02/10/95			
	DATE ANALYZED --->	02/18/95		02/19/95		02/18/95		02/18/95		02/20/95			
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A		
CAS #	Parameter												
74-87-3	Chloromethane	12.	U	2.	J	13.	U	12.	U	3.	J		
74-83-9	Bromomethane	12.	U	12.	U	13.	U	12.	U	12.	U		
75-01-4	Vinyl chloride	12.	U	12.	U	13.	U	12.	U	12.	U		
75-00-3	Chloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
75-09-2	Methylene chloride	12.	U	12.	U	13.	U	12.	U	12.	U		
67-64-1	Acetone	12.	UJ	12.	UJ	13.	UJ	14.	UJ	21.	UJ		
75-15-0	Carbon disulfide	12.	U	12.	U	13.	U	12.	U	12.	U		
75-35-4	1,1-Dichloroethene	12.	U	12.	U	13.	U	12.	U	12.	U		
75-34-3	1,1-Dichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	13.	U	12.	U	12.	U		
67-66-3	Chloroform	12.	U	12.	U	13.	U	12.	U	12.	U		
107-06-2	1,2-Dichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
78-93-3	2-Butanone (MEK)	12.	U	12.	UJ	13.	U	12.	U	12.	UJ		
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
56-23-5	Carbon tetrachloride	12.	U	12.	U	13.	U	12.	U	12.	UJ		
75-27-4	Bromodichloromethane	12.	U	12.	U	13.	U	12.	U	12.	U		
78-87-5	1,2-Dichloropropane	12.	U	12.	U	13.	U	12.	U	12.	U		
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	13.	U	12.	U	12.	U		
79-01-6	Trichloroethene	12.	U	12.	U	13.	U	12.	U	12.	U		
124-48-1	Dibromochloromethane	12.	U	12.	U	13.	U	12.	U	12.	U		
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	13.	U	12.	U	12.	U		
71-43-2	Benzene	12.	U	12.	U	13.	U	12.	U	12.	U		
10061-02-6	trans-1,3-Dichloropropene	12.	U	12.	U	13.	U	12.	U	12.	U		
75-25-2	Bromoform	12.	U	12.	UJ	13.	U	12.	U	12.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	12.	UJ	13.	U	12.	U	12.	U		
591-78-6	2-Hexanone	12.	U	12.	UJ	13.	U	12.	U	12.	U		
127-18-4	Tetrachloroethene	12.	U	12.	U	13.	U	12.	U	12.	U		
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	12.	UJ	13.	U	12.	U	12.	U		
108-88-3	Toluene	12.	U	12.	U	13.	U	12.	U	12.	U		
108-90-7	Chlorobenzene	12.	U	12.	U	13.	U	12.	U	12.	U		
100-41-4	Ethylbenzene	12.	U	12.	U	13.	U	12.	U	12.	U		
100-42-5	Styrene	12.	U	12.	U	13.	U	12.	U	12.	U		
1330-20-7	Xylene (Total)	12.	U	12.	U	13.	U	12.	U	12.	U		

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00491 & 95.00492 (Level IV Validation)
Case Nº:	FD1328

Sample Identification	Matrix
007S000801	Soil
007S000811	Soil
007S000822	Soil
007S000901	Soil
007S000908	Soil
007S000923	Soil
00A4021395	Soil
00A5021395	Soil
00A6021395	Soil
060S000501	Soil
060S000507	Soil
060S000512	Soil
060S000601	Soil
060S000608	Soil
060S000612	Soil
007E021195	Water
060E021395	Water
060F021395	Water
060P021395	Water
007S000801S	Soil
007S000801D	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 17 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements. CRDL standards for ICP and AA were analyzed and reported as required. The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form 10), inter-element corrections (Form 11 A & B) and linear range analysis (Form 12) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met. No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field or Trip Blank (µg/L)	Action Level (5x high. blk.)		Samples Affected
				(mg/kg)	(µg/L)		(mg/kg)	(µg/L)	
Barium	2.0					36.3	36.3	181.5	All
Copper	5.0		-8.0		-7.520		8.0	40.0	All
Nickel	15.0	16.9	23.7	3.756			23.7	118.5	All
Selenium	2.0	2.2	2.2				2.2	11.0	All
Silver	3.0	3.2					3.2	16.0	All
Tin	15.0		16.8				16.8	84.0	All
Zinc	5.0		-7.0	-1.504			7.52	37.6	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
007S000801	Nickel Tin	20.1 7.9B	20.1U 7.9U
007S000811	Selenium Tin	0.52B 6.8B	0.52U 6.8U
007S000822	Copper Nickel Selenium Tin	4.5B 14.4 0.55B 5.8B	4.5U 14.4U 0.55U 5.8U
007S000901	Nickel Tin	23.5 9.0B	23.5U 9.0U
007S000908	Nickel Tin	22.7 8.2B	22.7U 8.2U
007S000923	Nickel Selenium Tin	17.5 0.52B 5.7B	17.5U 0.52U 5.7U
060S501	Nickel Tin	14.1 5.5B	14.1U 5.5U

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
060S507	Tin	7.6B	7.6U
060S512	Nickel Selenium Tin	22.2 0.76B 10.7B	22.2U 0.76U 10.7U
060S601	Nickel Selenium Tin	21.3 0.89B 10.5B	21.3U 0.89U 10.5U
060S608	Selenium Tin	0.82B 8.0B	0.82U 8.0UJ
060S612	Nickel Selenium Tin	20.7 0.63B 9.8B	20.7U 0.63U 9.8U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within ±20% of the true value.

Analytes that are not present in the ICS solution but has an absolute value > IDL are as follow:

Date	Element	ICSAI Result (µg/L)	ICSF Result (µg/L)	IDL (µg/L)	Samples Affected	Flag
03/15/95	Chromium	27	25	5	None	None
	Cobalt	-11	-11	5	None	None
	Copper	16	8	5	None	None
	Nickel	43	42	15	None	None
	Silver	-59	-62	3	None	None
	Vanadium	-11	-22	4	None	None
	Tin	19	26	15	None	None
	Barium	22	22	2	None	None
	Zinc	27	31	5	None	None

No samples are affected since the result of Al, Ca, Mg, and Fe in samples are less than that in the ICS.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met except for the following:

Element	RPD	QC Limit	Associated Samples	Flag
Lead	134.1	35%	All	J(detect)/None(non-detect)

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	MS %R (QC Limit)	Associated Samples	Flag
Antimony	54.2 (75-125%)	All	J(detect)/UJ(non-detect)
Silver	0 (75-125%)	All	J(detect)/R(non-detect)
Cyanide	61 (75-125%)	All	J(detect)/UJ(non-detect)

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within 20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following that resulted in data qualifications:

Sample	Element	%R	QC Limit	Flag
007S923	Arsenic	123	85-115%	None (MSA passed)
060S501		122	85-115%	None (MSA passed)
07S811	Lead	123	85-115%	None (MSA passed)
007S801	Selenium	118	85-115%	J(detect)/UJ(non-detect)
007S822		75	85-115%	J(detect)/UJ(non-detect)
060S512		82	85-115%	J(detect)/UJ(non-detect)
060S601		83	85-115%	J(detect)/UJ(non-detect)
060S608		74.5	85-115%	J(detect)/UJ(non-detect)
060S612		83	85-115%	J(detect)/UJ(non-detect)
060S612	Thallium	79	85-115%	J(detect)/UJ(non-detect)

MSA was performed and the correlation coefficients were within QC limit of >0.995.

MSA was required for the following but were not performed:

Sample	Element	Flag
007S801	Selenium	J(detect)/UJ(non-detect)
007S822		J(detect)/UJ(non-detect)
060S512		J(detect)/UJ(non-detect)
060S601		J(detect)/UJ(non-detect)
060S608		J(detect)/UJ(non-detect)
060S612		J(detect)/UJ(non-detect)
060S612	Thallium	J(detect)/UJ(non-detect)

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

Sample results were accurately transposed.

Calculated results were the same as the reported results.

XI. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	007S000801 007S000822 007S000901 007S000908 007S000923 060S000501 060S000512 060S000601 060S000612	Nickel	U(non-detect)	Blank contamination
FD1328	007S000801 007S000811 007S000822 007S000901 007S000908 007S000923 060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	Tin	U(non-detect)	Blank contamination
FD1328	007S000811 007S000823 007S000923 060S000512 060S000601 060S000608 060S000612	Selenium	U(non-detect)	Blank contamination
FD1328	007S000822	Copper	U(non-detect)	Blank contamination
FD1328	All	Lead	J(detect)/None(non-detect)	Duplicate RPD
FD1328	All	Antimony Silver Cyanide	J(detect)/UJ(non-detect) J(detect)/R(non-detect) J(detect)/UJ(non-detect)	Matrix spike %R
FD1328	007S000801 007S000822 060S000512 060S000601 060S000608 060S000612	Selenium	J(detect)/UJ(non-detect)	Analytical spike %R
FD1328	060S000612	Thallium	J(detect)/UJ(non-detect)	Analytical spike %R

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Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00491 and 95.00492 (Level IV Validation)
Case Nº:	FD1328

Sample Identification	Matrix
007E021195	Water
060E021395	Water
060F012395	Water
060P021395	Water
060T021395	Water
007S000801	Soil
007S000801DL	Soil
007S000811	Soil
007S000822	Soil
007S000901	Soil
007S000908	Soil
007S000923	Soil
00A4021395	Soil
00A4021395DL	Soil
00A5021395	Soil
00A6021395	Soil
060S000501	Soil
060S000507	Soil
060S000512	Soil
060S000601	Soil
060S000608	Soil
060S000612	Soil
007E021195MS	Soil
007E021195MD	Soil
007S000801MS	Soil
007S000801MD	Soil

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INTRODUCTION

This data review report covers 21 soil samples and 5 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

I. HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Analysis Holding Time (Days)	QC Limit (Days)	Flag
007S000801DL	Soil	20	14	J(detect)/UJ(non-detect)

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

Instrument performance results were reviewed and the following ion abundance were found to fall outside the specific criteria:

Date	Compound	m/z	Actual Abundance	Required Abundance	Associated Samples	Flag
2/25/95	BFB	175	4.49%	5.0-9.0%	None	None

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
2/1/95 12:21	HP5970L	Acetone	32.3($\leq$30.0)	007S000811 007S000822 007S000908 007S000923	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
2/24/95 17:07	HP5970H	4-Methyl-2-pentanone 2-Hexanone	27.1(±25.0) 28.9(±25.0)	007S000901 060S000507 060S000512 060S000601 060S000608 060S000612	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
2/25/95 9:58	HP5970H	Acetone 4-Methyl-2-pentanone 2-Hexanone	26.5(±25.0) 28.2(±25.0) 29.8(±25.0)	007S000801 060S000501	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
2/19/95 9:09	HP5970L	Acetone 2-Butanone Bromoform 4-Methyl-2-pentanone 2-Hexanone 1,1,2,2 Tetrachloroethane	55.8(±25.0) 49.0(±25.0) 34.0(±25.0) 42.2(±25.0) 44.5(±25.0) 33.3(±25.0)	007S000801 007S000822	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
2/20/95 14:36	HP5970L	Acetone 2-Butanone Carbon Tetrachloride	39.1(±25.0) 28.5(±25.0) 33.7(±25.0)	007S000908 007S000923	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (ug/kg)	Action Level (ug/kg)		Associated Samples	Reported Concentration (ug/kg)	Modified Final Concentration (ug/kg)
				5 x	10 x			
2/20/95	VBLK022095L	Acetone	8J		80	007S000908 007S000923	13U 65BY	None 65U

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (ug/L)	Action Level (ug/L)		Associated Samples	Reported Conc.	Modified Final Conc.	Flag
				5 x	10 x				
02/22/95	007E021195	Acetone	6J		60	060S000507 060S000512 060S000601 060S000608	33 10J 44 40	33U 13U 44U 40U	

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

2 set(s) of matrix spike (MS) and matrix spike duplicate (MSD) were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Compound	MS %R (Limit)	MSD %R (Limit)	Flag
007S000801	1,1-Dichloroethene	48(59-172)	48(59-172)	J(detect)/UJ(non-detect)

Sample 007E021195 was a field blank, it should not be used as MS/MSD sample.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements except for the following:

Sample	Internal Standard	Area Count	Area Count QC Limit	Compounds Affected	Flag
007S000822	1,4-Difluorobenzene	56900	(60000-240000)	1,1,1-Trichloroethane	J(detect)/UJ(non-detect)
				Carbon Tetrachloride	J(detect)/UJ(non-detect)
				Vinyl Acetate	J(detect)/UJ(non-detect)
				Bromedichloromethane	J(detect)/UJ(non-detect)
				1,2-Dichloropropane	J(detect)/UJ(non-detect)
				Cis-1,3-Dichloropropene	J(detect)/UJ(non-detect)
				Trichloroethene	J(detect)/UJ(non-detect)
				Dibromochloromethane	J(detect)/UJ(non-detect)
				1,1,2-Trichloroethane	J(detect)/UJ(non-detect)
				Benzene	J(detect)/UJ(non-detect)
				Trans-1,3-Dichloropropane	J(detect)/UJ(non-detect)
				2-Chloromethyl Vinyl Ether	J(detect)/UJ(non-detect)
				Bromoform	J(detect)/UJ(non-detect)
007S000822	Chlorobenzene-d5	47300	(48400-193600)	4-Methyl-2-pentanone	J(detect)/UJ(non-detect)
				2-Hexanone	J(detect)/UJ(non-detect)
				Tetrachloroethane	J(detect)/UJ(non-detect)
				1,1,2,2-Tetrachloroethane	J(detect)/UJ(non-detect)
				Toluene	J(detect)/UJ(non-detect)
				Chlorobenzene	J(detect)/UJ(non-detect)
				Ethylbenzene	J(detect)/UJ(non-detect)
				Styrene	J(detect)/UJ(non-detect)
				Xylene (Total)	J(detect)/UJ(non-detect)

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated. Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements. The following result was modified due to dilution:

Sample	Compound	Reported Result	Modified Results
007S000801	Acetone	7800E	1100DJ

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms and mass spectra in every sample and blank were examined to verify the reported TIC, their quantitations were reported according to SOW 12/90. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	007S000801DL	All	J(detect)/UJ(non-detect)	Holding Time Out of Limit
FD1328	007S000811 007S000822 007S000908 007S000923	Acetone	J(detect)/UJ(non-detect)	Initial Calibration %RSD
FD1328	007S000901 060S000507 060S000512 060S000601 060S000608 060S000612	4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1328	007S000801 060S000501	Acetone 4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1328	007S000801 007S000822	Acetone 2-Butanone Bromoform 4-Methyl-2-pentanone 2-Hexanone 1,1,2,2-Tetrachloroethane	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1328	007S000908 007S000923	Acetone 2-Butanone Carbon Tetrachloride	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1328	007S000923	Acetone	65U	MB Contamination
FD1328	007S000801	1,1-Dichloroethene	J(detect)/UJ(non-detect)	MS/MSD %R
FD1328	060S000507 060S000512 060S000601 060S000608	Acetone Acetone Acetone Acetone	33U 13U 44U 40U	Field Blank Contamination
FD1328	007S000822	1,1,1-Trichloroethane Carbon Tetrachloride Vinyl Acetate Bromedichloromethane 1,2-Dichloropropane Cis-1,3-Dichloropropane Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Benzene Trans-1,3-Dichloropropane 2-Chloroethyl vinyl ether Bromoform 4-Methyl-2-pentanone 2-Hexanone Tetrachloroethane 1,1,2,2-Tetrachloroethane Toluene Chlorobenzene Ethylbenzene Styrene Xylene (total)	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Internal Standards Area Count
FD1328	007S000801	Acetone	1100DJ	Results from Diluted Sample

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
Net Job No:	95.00491 and 95.00492 (Level IV Validation)
Case No:	FD1328

Sample Identification	Matrix
007E021195	Water
007S000811	Soil
007S000822	Soil
007S000901	Soil
007S000908	Soil
007S000923	Soil
007S000801	Soil
00A4021395	Soil
00A5021395	Soil
00A6021395	Soil
060E021395	Water
060F021395	Water
060P021395	Water
060P021395RE	Water
060S000501	Soil
060S000507	Soil
060S000512	Soil
060S000601	Soil
060S000608	Soil
060S000612	Soil
060S000801MS	Soil
060S000801MSD	Soil

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 17 soil samples and 5 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/ Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
2/21/95 09:13	HP5970F	Hexachlorocyclopentadiene	43.7 (≤30)	007S000811	J(detect)/UJ(non-detect)
		1,2-Dichlorobenzene-d4	30.6 (≤30)	007S000822	J(detect)/UJ(non-detect)
				007S000901	J(detect)/UJ(non-detect)
				007S000908	J(detect)/UJ(non-detect)
				007S000923	J(detect)/UJ(non-detect)
				007S000801	J(detect)/UJ(non-detect)
				060S000501	J(detect)/UJ(non-detect)
				060S000507	J(detect)/UJ(non-detect)
				060S000512	J(detect)/UJ(non-detect)
				060S000601	J(detect)/UJ(non-detect)
				060S000608	J(detect)/UJ(non-detect)
				060S000612	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements.

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualification are listed as follow:

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
3/2/95	5BCK022495F	Di-n-Butylphthalate	400	4000	007S000801	380BJ	410U
					007S000811	100BJ	420U
					007S000822	400U	None
					007S000901	400U	None
					007S000908	520B	520U
					007S000923	420U	None

Date	Blank	Compound	Concentration (µg/kg)	Action Level 10 x (µg/kg)	Samples Affected	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
3/3/95	5BLK022695F	Di-n-Butylphthalate	350	3500	060S000501	2000U	None
					060S000507	430U	None
					060S000512	420U	None
					060S000601	410U	None
					060S000608	430U	None
					060S000612	430U	None

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualification are listed as follow:

Date	Field Blank	Compound	Concentration (µg/L)	Action Level 10 x (µg/L)	Associated Samples	Reported Concentration (µg/kg)	Modified Final Concentration (µg/kg)
2/27/95	007E021195	Bis(2-ethylhexyl)phthalate	5J	50	007S000811	41J	420U
2/27/95	060F021395	Bis(2-ethylhexyl)phthalate	2J	20	007S000801	41J	410U
2/27/95	060P021395	Bis(2-ethylhexyl)phthalate	4J	40	007S000822	400U	None
					007S000901	400U	None
					007S000908	420U	None
					007S000923	420U	None
					060S000501	2000U	None
					060S000507	75J	430U
					060S000512	50J	420U
					060S000601	50J	410U
					060S000608	61J	430U
					060S000612	57J	430U

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846. All surrogate spike recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated. Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms and mass spectra in every sample and blank were examined to verify the reported TIC. Their quantitations were reported according to SW846. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	007S000811 007S000822 007S000901 007S000908 007S000923 007S000801 060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial Calibration %RSD
FD1328	007S000801 007S000811 007S000908	Di-n-Butylphthalate Di-n-Butylphthalate Di-n-Butylphthalate	410U 420U 520U	Method blank contaminated
FD1328	007S000811 007S000801 060S000507 060S000512 060S000601 060S000608 060S000612	Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate Bis(2-ethylhexyl)phthalate	420U 410U 430U 420U 410U 430U 430U	Field blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00491 and 95.00492 (Level IV Validation)
Case Nº:	FD1328

Sample Identification	Matrix
007S000801	Soil
007S000811	Soil
007S000822	Soil
007S000901	Soil
007S000908	Soil
007S000923	Soil
00A4021395	Soil
00A5021395	Soil
00A6021395	Soil
060S000501	Soil
060S000507	Soil
060S000512	Soil
060S000601	Soil
060S000608	Soil
060S000612	Soil
007E021195	Water
060E021395	Water
060F021395	Water
060P021395	Water
007S000801MS	Soil
007S000801MSD	Soil

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INTRODUCTION

This data review report covers 17 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit except for the following:

Date/ Time	Standard	Compound	%D Column RTX-35	%D Column XTI-5	QC Limit	Associated Samples	Flag
03/16/95 1:16 03/16/95 0:33	1NDB09 1NDB09	Endrin Aldehyde 4,4-DDD	-19.75	-22.71 -16.84	±15.00 ±15.00	060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/17/95 18:06	1NDBM12	Endrin Aldehyde	-17.97		±15.00	007S000822 007S000901 007S000908 007S000923 007S000811 007S000801	J(detect)/UJ(non-detect)
03/17/95 23:52 03/18/95 0:35	1NDAM13 1NDBM13	4,4'-DDT Delta-BHC	25.66 -22.26		±15.00 ±15.00	007S000811 007S000801	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency. RT windows were all within QC limit.

No contaminant was found in the instrument blanks that resulted in data qualifications.

The method blanks were extracted and performed according to the SW846. No contaminant was found in the method blanks that resulted in data qualifications.

The field blanks were extracted and performed according to the SW846. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

Not required by SW846.

IX. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were properly identified except for the following compounds which were found to be misidentified and the appropriate actions were recommended:

Sample	Compound	Column	%D	QC Limit	Flag
060S000501	4,4'-DDD	RTX35	51.5	≤25%	J(detect)

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements except for the following:

Transcription errors were identified in all pesticide organic analysis data sheet. Concentrated extract volume was listed as 5 ml. It should be 10 ml as stated in the extraction log.

XII. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	Endrin Aldehyde 4,4'-DDD	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1328	007S000822 007S000901 007S000908 007S000923 007S000811 007S000801	Endrin Aldehyde	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1328	007S000811 007S000801	4,4'-DDT Delta-BHC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1328	060S000501	4,4'-DDD	J(detect)/UJ(non-detect)	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00491,95.00492 (Level IV Validation)
Case Nº:	FD1328

Sample Identification	Matrix
007E021195	Water
007S000801	Soil
007S000811	Soil
007S000822	Soil
007S000901	Soil
007S000908	Soil
007S000923	Soil
00A4021395	Soil
00A5021395	Soil
00A6021395	Soil
060E021395	Water
060F021395	Water
060P021395	Water
060S000501	Soil
060S000507	Soil
060S000512	Soil
060S000601	Soil
060S000608	Soil
060S000612	Soil
007S000801MS	Soil
007S000801MSD	Soil

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INTRODUCTION

This data review report covers 17 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD RTX35	QC Limit	Associated Samples	Flag
2/22/95 20:40	RF250 RF500 RF1000 RF2000 RF4000	Mevinphos Alpha Fensulfothion Guthion Coumophos	22.7 31.4 70.3 36.1	≤20% ≤20% ≤20% ≤20%	007S000801 007S000811 007S000822 007S000901 007S000908 007S000923 060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D Primary Column RTX35	QC Limit	Associated Samples	Flag
3/3/95 19:03	RF1000	Dichlorvos	32.6	≤15%	007S000801	J(detect)/UJ(non-detect)
	RF1000	Mevinphos Alpha	34.4	≤15%	007S000811	J(detect)/UJ(non-detect)
	RF1000	Stirophos	27.7	≤15%	007S000822	J(detect)/UJ(non-detect)
	RF1000	Sulprophos	-15.6	≤15%	007S000901	J(detect)/UJ(non-detect)
	RF1000	Guthion	18.4	≤15%	007S000908	J(detect)/UJ(non-detect)
	RF1000	Coumophos	-32.2	≤15%		
3/4/95 10:55	RF1000	Dichlorvos	35.2	≤15%	007S000801	J(detect)/UJ(non-detect)
	RF1000	Mevinphos Alpha	41.9	≤15%	007S000811	J(detect)/UJ(non-detect)
	RF1000	Demeton O	-29.4	≤15%	007S000822	J(detect)/UJ(non-detect)
	RF1000	Phorate	-16.5	≤15%	007S000901	J(detect)/UJ(non-detect)
	RF1000	Trichloronate	-16.3	≤15%	007S000908	J(detect)/UJ(non-detect)
	RF1000	Tokuthion	-17.6	≤15%	007S000923	J(detect)/UJ(non-detect)
	RF1000	Stirophos	22.0	≤15%	060S000501	J(detect)/UJ(non-detect)
	RF1000	Sulprophos	-25.0	≤15%	060S000507	J(detect)/UJ(non-detect)
	RF1000	Coumophos	-42.2	≤15%	060S000512	J(detect)/UJ(non-detect)

Date/ Time	Standard	Compound	%D Primary Column RTX35	QC Limit	Associated Samples	Flag
3/5/95 03:22	RF1000	Dichlorvos	34.9	≤15%	007S000823	J(detect)/UJ(non-detect)
	RF1000	Mevinphos Alpha	43.9	≤15%	060S000501	J(detect)/UJ(non-detect)
	RF1000	Demeton O	-36.5	≤15%	060S000507	J(detect)/UJ(non-detect)
	RF1000	Phorate	-15.8	≤15%	060S000512	J(detect)/UJ(non-detect)
	RF1000	Tokuthion	-16.2	≤15%	060S000601	J(detect)/UJ(non-detect)
	RF1000	Stirophos	37.0	≤15%	060S000608	J(detect)/UJ(non-detect)
	RF1000	Sulprophos	-22.0	≤15%	060S000612	J(detect)/UJ(non-detect)
	RF1000	Guthion	-41.7	≤15%		
	RF1000	Coumophos	-56.1	≤15%		
3/5/95 09:59	RF1000	Dichlorvos	30.8	≤15%	060S000601	J(detect)/UJ(non-detect)
	RF1000	Mevinphos Alpha	37.4	≤15%	060S000608	J(detect)/UJ(non-detect)
	RF1000	Demeton O	-43.9	≤15%	060S000612	J(detect)/UJ(non-detect)
	RF1000	Phorate	-20.5	≤15%		
	RF1000	Trichloronate	-15.8	≤15%		
	RF1000	Tokuthion	-17.6	≤15%≤1		
	RF1000	Fensulfothion	-30.9	5%		
	RF1000	Sulprophos	-24.9	≤15%		
	RF1000	Guthion	-133.8	≤15%≤1		
	RF1000	Coumophos	-82.3	5%		

V. BLANKS

Instrument blank(s) was/were performed at the required frequency and were free of contamination.

The method blank(s) was/were extracted and performed according to the SW846. The blanks were free of contamination.

The field blank(s) was/were extracted and performed according to the SW846.

No contaminants were found in the field blanks.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
007S000801	RTX35	Demeton-S			18 (15)	J(detect)/UJ(non-detect)
007S000801	RTX35	Disulfoton			17 (15)	J(detect)/UJ(non-detect)
007S000801	RTX35	Fensulfothion	154(50-140)	154(50-140)		J(detect)/None(non-detect)
007S000801	RTX35	Guthion	178(50-140)	146(50-140)		J(detect)/None(non-detect)
007S000801	RTX35	Cuomaphos	161(50-140)			J(detect)/None(non-detect)
007S000801	RTX35	Merphos	0 (50-140)	0 (50-140)	20 (15)	J(detect)/R(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
3/4/95	OPLCS01224S	RTX35 RTX35 RTX35 RTX35 RTX35 RTX35	Demeton O Demeton S Diazinon Disulfoton Stirophos Merphos	26.2(50-150) 11.2(50-150) 33.5(50-150) 18.4(50-150) 40.5(50-150) 0.0(50-150)	0.0(32.68-32.88)	007S000801 007S000811 007S000822 007S000901 007S000908 007S000923	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)
3/4/95	NLCS10227S	RTX35 RTX5	Stirophos Merphos	43.5(50-150) 0.8(50-150)		060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	J(detect)/UJ(non-detect) J(detect)/R(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XI. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	All samples	Mevinphos Alpha Fensulfothion Guthion Coumophos	J(detect)/UJ(non-detect)	Initial Calibration %RSD
FD1328	007S000801 007S000811 007S000822 007S000901 007S000908	Dichlorvos Mevinphos Alpha Stirophos Sulprophos Guthion Coumophos	J(detect)/UJ(non-detect)	Calibration Verification %D
FD1328	007S000801 007S000811 007S000822 007S000901 007S000908 007S000923 060S000501 060S000507 060S000512	Dichlorvos Mevinphos Alpha Demeton O Phorate Trichloronate Stirophos Sulprophos Coumophos	J(detect)/UJ(non-detect)	Calibration Verification %D
FD1328	007S000923 060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	Dichlorvos Mevinphos Alpha Demeton O Phorate Tokuthion Stirophos Sulprophos Guthion Coumophos	J(detect)/UJ(non-detect)	Calibration Verification %D
FD1328	060S000601 060S000608 060S000612	Dichlorvos Mevinphos Alpha Demeton O Phorate Trichloronate Tokuthion Fensulfothion Sulprophos Guthion Coumophos	J(detect)/UJ(non-detect)	Calibration Verification %D
FD1328	007S000801	Demeton O Disulfoton Fensulfothion Guthion Coumophos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/R(non-detect)	MS,MSD%R
FD1328	007S000801 007S000811 007S000822 007S000901 007S000908 007S000923	Demeton O Demeton S Diazinon Disulfoton Stirophos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/R(non-detect)	LCS %R
FD1328	060S000501 060S000507 060S000512 060S000601 060S000608 060S000612	Stirophos Merphos	J(detect)/UJ(non-detect) J(detect)/R(non-detect)	LCS %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00491,95.00492 (Level IV Validation)
Case Nº:	FD1328

Sample Identification	Matrix
007E021195	Water
007S000801	Soil
007S000811	Soil
007S000822	Soil
007S000901	Soil
007S000908	Soil
007S000923	Soil
00A4021395	Soil
00A5021395	Soil
00A6021395	Soil
060E021395	Water
060F021395	Water
060P021395	Water
060S000501	Soil
060S000507	Soil
060S000512	Soil
060S000601	Soil
060S000608	Soil
060S000612	Soil
007S000801MS	Soil
007S000801MD	Soil

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INTRODUCTION

This data review report covers 17 soil samples and 4 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard	Compounds	%RSD	QC Limit	Associated Samples	Flag
03/14/95 24:12	RTX35	Dinoseb	40.3	≤20%	060S000507 060S000501 060S000512 060S000601 060S000608 060S000612 007S000801 007S000811 007S000822 007S000901 007S000908 007S000923	J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D Primary Column	QC Limit	Associated Samples	Flag
03/17/95 11:15	RTX35	MCPP MCPA	15.2 19.3	≤15% ≤15%	007S000801 007S000811 007S000822 007S000901 007S000908 007S000923	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/17/95 17:29	RTX35	Dalapon	16	≤15%	007S000822 007S000901 007S000908 007S000923	J(detect)/UJ(non-detect)
03/15/95 13:06	RTX35	Dinoseb	15.8	≤15%	060S000507	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency. No contaminant was found in the instrument blanks that resulted in data qualifications.

The method blanks were extracted and performed according to the SW846. No contaminant was found in the method blanks that resulted in data qualifications.

The field blanks were extracted and performed according to the SW846. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
007S000801	RTX35	Dinoseb	0(10-150)	0(10-150)		J(detect)/R(non-detect)
		Dalapon			27 (≤20%)	J(detect)/UJ(non-detect)
		Dicamba			42 (≤20%)	J(detect)/UJ(non-detect)
		MCPA			60 (≤20%)	J(detect)/UJ(non-detect)
		Dichloroprop			41 (≤20%)	J(detect)/UJ(non-detect)
		2,4-D			37 (≤20%)	J(detect)/UJ(non-detect)
		Silvex			27 (≤20%)	J(detect)/UJ(non-detect)
		2,4-DB			48 (≤20%)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
HLCS02275	RTX35	Dinoseb	0(10-150)	0(23.9-24)	060S000507 060S000501 060S000512 060S000601 060S000608 060S000612	J(detect)/R(non-detect)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were properly identified non-detected except for the following:

Sample	Compound	Column	%D (QC Limit)	Flag
007S000901	2,4-DB	RTX35	27 (≤25%)	J

Sample	Compound	Column	%D (QC Limit)	Flag
007S000601	Silvex	RTX35	46.5 (≤25%)	J
007S000608	Silvex Dinoseb	RTX35 RTX35	25.8 (≤25%) 97.7 (≤25%)	J J

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XII. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	060S000507 060S000501 060S000512 060S000601 060S000608 060S000612 007S000801 007S000811 007S000822 007S000901 007S000908 007S000923	Dinoseb	J(detect)/UJ(non-detect)	Initial Calibration %RSD
FD1328	007S000801 007S000811 007S000822 007S000901 007S000908 007S000923	MCPP MCPA	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1328	007S000822 007S000901 007S000908 007S000923	Dalapon	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1328	060S000507	Dinoseb	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1328	007S000801	Dinoseb	J(detect)/R(non-detect)	Matrix spike/matrix spike duplicate %R
FD1328	007S000801	Dalapon Dicamba MCPA Dichloroprop 2,4-D Silvex 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Matrix spike/matrix spike duplicate RPD
FD1328	060S000507 060S000501 060S000512 060S000601 060S000608 060S000612	Dinoseb	J(detect)/R(non-detect)	Laboratory control sample %R
FD1328	007S000901 007S000601 007S000608	2,4-DB Silvex Silvex,Dinoseb	J J J	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00491 and 95.00492 (Level III Validation)
Case Nº:	FD1328

Sample Identification	Matrix
007E021195	Water
060E021395	Water
060F021395	Water
060P021395	Water
007S000801	Soil
007S000811	Soil
007S000822	Soil
007S000901	Soil
007S000908	Soil
007S000923	Soil
00A4021395	Soil
00A5021395	Soil
00A6021395	Soil
060S000501	Soil
060S000507	Soil
060S000512	Soil
060S000601	Soil
060S000608	Soil
060S000612	Soil

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INTRODUCTION

This data review report covers 15 soil samples and 4 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

No continuing calibration was necessary since all the analysis were done on the same day as initial calibration.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s).

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) are listed as follow:

Date	Blank	Compound	Concentration (mg/L)	Action Level 5 x (mg/L)	Associated Samples	Reported Concentration (mg/L)	Modified Final Concentration (mg/L)
03/06/95	060E021395	TPH	230	1150	060S000601	700	700U

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	060S000601	TPH	700U	Field blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	GENERAL INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00491 and 95.00492 (Level III Validation)
Case Nº:	FD1328

Sample Identification	Matrix
005SDESIGN	Soil
007SDESIGN	Soil

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INTRODUCTION

This data review report covers 2 soil samples listed on the cover page. The analyses were per EPA Method 365.3 (Total Phosphorus), Method 351.2 (Total Kjeldahl Nitrogen Analysis), and Method 353.2 (N as Nitrate, N as Nitrite Analysis) in "Method for Chemical Analysis of Water and Wastes," EPA 600/4-79/020, Revised March 1983. Method Modified 9081 (Cation exchange capacity) and Method Modified 9060 (Total Organic Carbon).

This review follows the approach of the USEPA Contract Laboratory Program National Functional in SW846 Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within ±15.0 percent.

IV. BLANKS

The method blank was extracted and performed according to the SW846. The blank was free of contamination.

No field blank was analyzed.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Parameter	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Flag
007SDESIGN	Total Kjeldahl Nitrogen	40.0 (75-125%)	N/A	31.1 (≤20%)	J(detect)/UJ(non-detect)

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. SYSTEM PERFORMANCE

Not applicable.

X. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XI. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

General Inorganic Data Qualification Summary - SDG Nº FD1328

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1328	007SDESIGN	Total Kjeldahl Nitrogen	J(detect)/UJ(non-detect)	Matrix spike/matrix spike duplicate %R & RPD

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 HERB													
	SAMPLE ID ------->	007-S-0008-01		007-S-0008-11		007-S-0008-22		007-S-0009-01		007-S-0009-08		007-S-0009-23	
	ORIGINAL ID ----->	007S000801		007S000811		007S000822		007S000901		007S000908		007S000923	
	LAB SAMPLE ID --->	116795		116796		116797		116798		116799		116800	
	SAMPLE DATE ----->	02/11/95		02/11/95		02/11/95		02/11/95		02/11/95		02/11/95	
	DATE EXTRACTED -->	03/07/95		03/07/95		03/07/95		03/07/95		03/07/95		03/07/95	
	DATE ANALYZED --->	03/17/95		03/17/95		03/17/95		03/17/95		03/17/95		03/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A
CAS #	Parameter												
94-82-6	2,4-DB	9.5	UJ	9.5	U	9.5	U	23.	J	9.5	U	9.5	U
88-85-7	Dinoseb	4.7	UR	4.7	UJ	4.7	UJ	5.7	UJ	4.7	UJ	4.7	UJ
93-76-5	2,4,5-T	0.95	U	0.95	U	0.95	U	1.1	U	0.05	U	0.05	U
93-72-1	2,4,5-TP (Silvex)	0.95	UJ	0.95	U	0.95	U	1.1	U	0.05	U	0.05	U
75-99-0	Dalapon	23.	UJ	23.	U	23.	UJ	27.	UJ	23.	UJ	23.	UJ
1918-00-9	Dicamba	0.94	UJ	0.94	U	0.94	U	1.1	U	0.94	U	0.94	U
120-36-5	Dichlorprop	9.4	UJ	9.4	U	9.4	U	11.	U	9.4	U	9.4	U
94-74-6	MCPA	940.	UJ	940.	UJ	940.	UJ	1100.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	940.	UJ	940.	UJ	940.	UJ	1100.	UJ	940.	UJ	940.	UJ
94-75-7	2,4-D	9.4	UJ	9.4	U	9.4	U	11.	U	9.4	U	9.4	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 HERB													
	SAMPLE ID ------->	060-S-0005-01		060-S-0005-07		060-S-0005-12		060-S-0006-01		060-S-0006-08		060-S-0006-12	
	ORIGINAL ID ----->	060S000501		060S000507		060S000512		060S000601		060S000608		060S000612	
	LAB SAMPLE ID --->	116804		116805		116806		116807		116808		116809	
	SAMPLE DATE ----->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE EXTRACTED -->	03/03/95		03/03/95		03/03/95		03/03/95		03/03/95		03/03/95	
	DATE ANALYZED --->	03/15/95		03/15/95		03/15/95		03/16/95		03/16/95		03/16/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A
CAS #	Parameter												
94-82-6	2,4-DB	8.9	U	9.1	U	9.6	U	0.92	U	10.	U	9.3	U
88-85-7	Dinoseb	4.4	UR	4.6	UR	4.8	UR	4.6	UR	13.	UR	4.6	UR
93-76-5	2,4,5-T	0.89	U	0.91	U	0.96	U	0.92	U	1.	U	0.93	U
93-72-1	2,4,5-TP (Silvex)	0.89	U	0.91	U	0.96	U	1.7	J	2.3	J	0.94	U
75-99-0	Dalapon	21.	U	22.	U	23.	U	22.	U	24.	U	22.	U
1918-00-9	Dicamba	0.88	U	0.9	U	0.95	U	0.92	U	1.	U	0.93	U
120-36-5	Dichlorprop	8.8	U	9.	U	9.5	U	9.2	U	10.	U	9.2	U
94-74-6	MCPA	880.	U	900.	U	950.	U	920.	U	1000.	U	920.	U
93-65-2	MCPP	880.	U	900.	U	950.	U	920.	U	1000.	U	920.	U
94-75-7	2,4-D	8.8	U	9.	U	9.5	U	9.2	U	10.	U	9.2	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 KJELDAHL						
SAMPLE ID ------->	005-S-DESI-GN	007-S-DESI-GN				
ORIGINAL ID ----->	005SDESIGN	007SDESIGN				
LAB SAMPLE ID --->	116834	116835				
SAMPLE DATE ----->	02/13/95	02/13/95				
DATE EXTRACTED -->	02/17/95	02/17/95				
DATE ANALYZED --->	02/24/95	02/24/95				
MATRIX ---------->	Soil	Soil				
UNITS ---------->	mg/Kg A	mg/Kg A				
CAS # Parameter						
999-99-9 Kjeldahl Nitrogen-N	190.	420. J				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 METAL													
	SAMPLE ID ------->	007-S-0008-01		007-S-0008-11		007-S-0008-22		007-S-0009-01		007-S-0009-08		007-S-0009-23	
	ORIGINAL ID ----->	007S000801		007S000811		007S000822		007S000901		007S000908		007S000923	
	LAB SAMPLE ID --->	2-116814S		2-116815S		2-116816S		2-116817S		2-116818S		2-116819S	
	SAMPLE DATE ----->	02/11/95		02/11/95		02/11/95		02/11/95		02/11/95		02/11/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	9.9	UJ	10.1	UJ	9.9	UJ	9.6	UJ	10.2	UJ	10.3	UJ
AS	Arsenic	10.3		10.5		1.7	J	10.2		8.8		3.	
BA	Barium	101.		108.		60.9		142.		109.		78.9	
BE	Beryllium	0.35	J	0.3	J	0.41	J	0.41	J	0.32	J	0.54	J
CD	Cadmium	0.74	U	0.76	U	0.74	U	0.72	U	0.77	U	0.77	U
CR	Chromium	14.8		11.9		23.9		19.7		14.7		11.7	
CO	Cobalt	7.9	J	7.5	J	3.9	J	6.1	J	7.3	J	7.1	J
CU	Copper	11.8		13.4		4.5	U	14.3		12.9		11.7	
PB	Lead	43.7	J	26.9	J	8.7	J	27.5	J	11.8	J	10.3	J
HG	Mercury	0.12	U	0.13		0.12	U	0.12		0.15		0.13	
NI	Nickel	20.1	U	24.		14.4	U	23.5	U	22.7	U	17.5	U
SE	Selenium	0.49	UJ	0.52	U	0.55	UJ	0.48	U	0.51	U	0.52	U
AG	Silver	0.74	UR	0.76	UR	0.74	UR	0.72	UR	0.77	UR	0.77	UR
TL	Thallium	0.49	U	0.51	U	0.49	U	0.48	U	0.51	U	0.52	U
V	Vanadium	23.		18.7		28.2		28.8		25.8		24.8	
ZN	Zinc	48.1		52.8		17.7		52.3		51.4		31.7	
SN	Tin	7.9	U	6.8	U	5.8	U	9.	U	8.2	U	5.7	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		NR		NR		NR	
FE	Iron	NR		NR		NR		NR		NR		NR	
MG	Magnesium	NR		NR		NR		NR		NR		NR	
MN	Manganese	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 METAL						
SAMPLE ID ------->	060-S-0005-01	060-S-0005-07	060-S-0005-12	060-S-0006-01	060-S-0006-08	060-S-0006-12
ORIGINAL ID ----->	060S000501	060S000507	060S000512	060S000601	060S000608	060S000612
LAB SAMPLE ID --->	2-116823S	2-116824S	2-116825S	2-116826S	2-116827S	2-116828S
SAMPLE DATE ----->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS # Parameter						
SB Antimony	10.1 UJ	10.5 UJ	10.1 UJ	11.9 J	14. J	10.3 UJ
AS Arsenic	7.2	11.2	8.2	9.5	11.6	8.
BA Barium	94.9	246.	118.	144.	191.	67.5
BE Beryllium	0.25 U	0.37 J	0.28 J	0.35 J	0.35 J	0.26 U
CD Cadmium	0.75 U	0.79 U	0.76 U	0.74 U	0.8 U	0.78 U
CR Chromium	10.3	17.8	14.2	16.7	15.1	10.2
CO Cobalt	5.6 J	9.4 J	4.8 J	8. J	9.1 J	5.4 J
CU Copper	11.4	15.1	9.8	19.8	15.5	10.3
PB Lead	52.7 J	12.9 J	13.8 J	25.8 J	13. J	7.3 J
HG Mercury	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U	0.13 U
NI Nickel	14.1 U	31.2	22.2 U	21.3 U	31.8	20.7 U
SE Selenium	0.5 U	0.53 U	0.76 J	0.89 UJ	0.82 UJ	0.63 UJ
AG Silver	0.75 UR	0.79 UR	0.76 UR	0.74 UR	0.8 UR	0.78 UR
TL Thallium	0.5 U	0.53 U	0.51 U	0.5 U	0.53 U	0.52 UJ
V Vanadium	16.2	29.9	19.9	25.	25.7	15.5
ZN Zinc	53.3	56.2	46.6	103.	60.7	47.3
SN Tin	5.5 U	7.6 U	10.7 U	10.5 U	8. U	9.8 U
AL Aluminum	NR	NR	NR	NR	NR	NR
CA Calcium	NR	NR	NR	NR	NR	NR
FE Iron	NR	NR	NR	NR	NR	NR
MG Magnesium	NR	NR	NR	NR	NR	NR
MN Manganese	NR	NR	NR	NR	NR	NR
K Potassium	NR	NR	NR	NR	NR	NR
NA Sodium	NR	NR	NR	NR	NR	NR

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 METAL-CN						
SAMPLE ID ------->	007-S-0008-01	007-S-0008-11	007-S-0008-22	007-S-0009-01	007-S-0009-08	007-S-0009-23
ORIGINAL ID ----->	007S000801	007S000811	007S000822	007S000901	007S000908	007S000923
LAB SAMPLE ID --->	116795	116796	116797	116798	116799	116800
SAMPLE DATE ----->	02/11/95	02/11/95	02/11/95	02/11/95	02/11/95	02/11/95
DATE EXTRACTED -->	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95
DATE ANALYZED --->	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS # Parameter						
CN Cyanide	0.57 UJ	0.6 UJ	0.59 UJ	0.56 UJ	0.59 UJ	0.61 UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 METAL-CN						
SAMPLE ID ------->	060-S-0005-01	060-S-0005-07	060-S-0005-12	060-S-0006-01	060-S-0006-08	060-S-0006-12
ORIGINAL ID ----->	060S000501	060S000507	060S000512	060S000601	060S000608	060S000612
LAB SAMPLE ID --->	116804	116805	116806	116807	116808	116809
SAMPLE DATE ----->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
DATE EXTRACTED -->	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95	02/15/95
DATE ANALYZED --->	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95	02/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS # Parameter						
CN Cyanide	0.56 UJ	0.63 UJ	0.61 UJ	0.56 UJ	0.57 UJ	0.58 UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 NITRATE							
	SAMPLE ID ------->	005-S-DESI-GN	007-S-DESI-GN				
	ORIGINAL ID ----->	005SDESIGN	007SDESIGN				
	LAB SAMPLE ID --->	116834	116835				
	SAMPLE DATE ----->	02/13/95	02/13/95				
	DATE ANALYZED --->	02/15/95	02/15/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	mg/Kg A	mg/Kg A				
CAS #	Parameter						
99999-03-4	Nitrate, MOD. EPA 353.2 S	20.	15.				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 OP PEST													
	SAMPLE ID ------->	007-S-0008-01		007-S-0008-11		007-S-0008-22		007-S-0009-01		007-S-0009-08		007-S-0009-23	
	ORIGINAL ID ----->	007S000801		007S000811		007S000822		007S000901		007S000908		007S000923	
	LAB SAMPLE ID --->	116795		116796		116797		116798		116799		116800	
	SAMPLE DATE ----->	02/11/95		02/11/95		02/11/95		02/11/95		02/11/95		02/11/95	
	DATE EXTRACTED -->	03/01/95		03/01/95		03/01/95		03/01/95		03/01/95		03/01/95	
	DATE ANALYZED --->	03/04/95		03/04/95		03/04/95		03/04/95		03/04/95		03/04/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A
CAS #	Parameter												
86-50-0	Guthion	1.	UJ	210.	UJ	210.	UJ	200.	UJ	210.	UJ	220.	UJ
35400-43-2	Sulprofos	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
2921-88-2	Chloropyrifos	1.	U	110.	U	100.	U	100.	U	100.	U	110.	U
56-72-4	Coumaphos	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
8065-48-3	Demeton,O	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
333-41-5	Diazinon	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
62-73-7	Dichlorvos	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
298-04-4	Disulfoton	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
13194-48-4	Ethoprop	1.	U	110.	U	100.	U	100.	U	100.	U	110.	U
115-90-2	Fensulfothion	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
55-38-9	Fenthion	1.	U	110.	U	100.	U	100.	U	100.	U	110.	U
150-50-5	Merphos	1.	UR	110.	UR	100.	UR	100.	UR	100.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
300-76-5	Naled	1.	U	110.	U	100.	U	100.	U	100.	U	110.	U
298-00-0	Methyl parathion	1.	U	110.	U	100.	U	100.	U	100.	U	110.	U
298-02-2	Phorate	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
299-84-3	Ronnel	1.	U	110.	U	100.	U	100.	U	100.	U	110.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
34643-46-4	Tokuthion	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
327-98-0	Trichloronate	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ
126-75-0	Demeton,S	1.	UJ	110.	UJ	100.	UJ	100.	UJ	100.	UJ	110.	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 OP PEST													
	SAMPLE ID ------->	060-S-0005-01		060-S-0005-07		060-S-0005-12		060-S-0006-01		060-S-0006-08		060-S-0006-12	
	ORIGINAL ID ----->	060S000501		060S000507		060S000512		060S000601		060S000608		060S000612	
	LAB SAMPLE ID --->	116804		116805		116806		116807		116808		116809	
	SAMPLE DATE ----->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE EXTRACTED -->	02/27/95		02/27/95		03/01/95		03/01/95		03/01/95		03/01/95	
	DATE ANALYZED --->	03/04/95		03/05/95		03/05/95		03/05/95		03/05/95		03/05/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A
CAS #	Parameter												
86-50-0	Guthion	200.	UJ	210.	UJ	210.	UJ	200.	UJ	220.	UJ	220.	UJ
35400-43-2	Sulprofos	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
2921-88-2	Chloropyrifos	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
56-72-4	Coumaphos	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
8065-48-3	Demeton,O	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
333-41-5	Diazinon	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
62-73-7	Dichlorvos	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
298-04-4	Disulfoton	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
13194-48-4	Ethoprop	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
115-90-2	Fensulfothion	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
55-38-9	Fenthion	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
150-50-5	Merphos	99.	UR	110.	UR	110.	UR	99.	UR	110.	UR	110.	UR
7786-34-7	Mevinphos, Alpha	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
300-76-5	Naled	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
298-00-0	Methyl parathion	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
298-02-2	Phorate	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
299-84-3	Ronnel	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U
22248-79-9	Stirophos (Tetrachlorovinphos)	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
34643-46-4	Tokuthion	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
327-98-0	Trichloronate	99.	UJ	110.	UJ	110.	UJ	99.	UJ	110.	UJ	110.	UJ
126-75-0	Demeton,S	99.	U	110.	U	110.	U	99.	U	110.	U	110.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 PEST													
	SAMPLE ID ------->	007-S-0008-01		007-S-0008-11		007-S-0008-22		007-S-0009-01		007-S-0009-08		007-S-0009-23	
	ORIGINAL ID ----->	007S000801		007S000811		007S000822		007S000901		007S000908		007S000923	
	LAB SAMPLE ID --->	116814		116815		116816		116817		116818		116819	
	SAMPLE DATE ----->	02/11/95		02/11/95		02/11/95		02/11/95		02/11/95		02/11/95	
	DATE EXTRACTED -->	02/24/95		02/24/95		02/24/95		02/24/95		02/24/95		02/24/95	
	DATE ANALYZED --->	03/17/95		03/17/95		03/17/95		03/17/95		03/17/95		03/17/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
319-85-7	beta-BHC	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
319-86-8	delta-BHC	2.1	UJ	2.2	UJ	2.1	U	2.1	U	2.2	U	2.2	U
58-89-9	gamma-BHC (Lindane)	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
76-44-8	Heptachlor	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
309-00-2	Aldrin	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
1024-57-3	Heptachlor epoxide	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
959-98-8	Endosulfan I	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
60-57-1	Dieldrin	4.1	U	4.2	U	4.	U	4.	U	4.2	U	4.2	U
72-55-9	4,4'-DDE	4.1	U	4.2	U	4.	U	4.	U	4.2	U	4.2	U
72-20-8	Endrin	4.1	U	4.2	U	4.	U	4.	U	4.2	U	4.2	U
33213-65-9	Endosulfan II	4.1	U	4.2	U	4.	U	4.	U	4.2	U	4.2	U
72-54-8	4,4'-DDD	4.1	U	4.2	U	4.	U	4.	U	4.2	U	4.2	U
1031-07-8	Endosulfan sulfate	4.1	U	4.2	U	4.	U	4.	U	4.2	U	4.2	U
50-29-3	4,4'-DDT	4.1	UJ	4.2	UJ	4.	U	4.	U	4.2	U	4.2	U
72-43-5	Methoxychlor	21.	U	22.	U	21.	U	21.	U	22.	U	22.	U
53494-70-5	Endrin ketone	4.1	U	4.2	U	4.	U	4.	U	4.2	U	4.2	U
7421-36-3	Endrin aldehyde	4.1	UJ	4.2	UJ	4.	UJ	4.	UJ	4.2	UJ	4.2	UJ
5103-71-9	alpha-Chlordane	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
5103-74-2	gamma-Chlordane	2.1	U	2.2	U	2.1	U	2.1	U	2.2	U	2.2	U
8001-35-2	Toxaphene	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U
12674-11-2	Aroclor-1016	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U
11104-28-2	Aroclor-1221	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U
11141-16-5	Aroclor-1232	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U
53469-21-9	Aroclor-1242	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U
12672-29-6	Aroclor-1248	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U
11097-69-1	Aroclor-1254	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U
11096-82-5	Aroclor-1260	41.	U	42.	U	40.	U	40.	U	42.	U	42.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 PEST						
SAMPLE ID ------->	060-S-0005-01	060-S-0005-07	060-S-0005-12	060-S-0006-01	060-S-0006-08	060-S-0006-12
ORIGINAL ID ----->	060S000501	060S000507	060S000512	060S000601	060S000608	060S000612
LAB SAMPLE ID --->	116823	116824	116825	116826	116827	116828
SAMPLE DATE ----->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
DATE EXTRACTED -->	02/27/95	02/27/95	02/27/95	02/27/95	02/27/95	02/27/95
DATE ANALYZED --->	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
319-84-6 alpha-BHC	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
319-85-7 beta-BHC	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
319-86-8 delta-BHC	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
58-89-9 gamma-BHC (Lindane)	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
76-44-8 Heptachlor	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
309-00-2 Aldrin	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
1024-57-3 Heptachlor epoxide	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
959-98-8 Endosulfan I	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
60-57-1 Dieldrin	47.	4.3 U	4.2 U	4.1 U	4.3 U	4.3 U
72-55-9 4,4'-DDE	4.1 U	4.3 U	4.2 U	4.1 U	4.3 U	4.3 U
72-20-8 Endrin	4.1 U	4.3 U	4.2 U	4.1 U	4.3 U	4.3 U
33213-65-9 Endosulfan II	4.1 U	4.3 U	4.2 U	4.1 U	4.3 U	4.3 U
72-54-8 4,4'-DDD	10. J	4.3 UJ	4.2 UJ	4.1 UJ	4.3 UJ	4.3 UJ
1031-07-8 Endosulfan sulfate	4.1 U	4.3 U	4.2 U	4.1 U	4.3 U	4.3 U
50-29-3 4,4'-DDT	4.1 U	4.3 U	4.2 U	4.1 U	4.3 U	4.3 U
72-43-5 Methoxychlor	21. U	22. U	22. U	21. U	22. U	22. U
53494-70-5 Endrin ketone	4.1 U	4.3 U	4.2 U	4.1 U	4.3 U	4.3 U
7421-36-3 Endrin aldehyde	4.1 UJ	4.3 UJ	4.2 UJ	4.1 UJ	4.3 UJ	4.3 UJ
5103-71-9 alpha-Chlordane	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
5103-74-2 gamma-Chlordane	2.1 U	2.2 U	2.2 U	2.1 U	2.2 U	2.2 U
8001-35-2 Toxaphene	41. U	43. U	42. U	41. U	43. U	43. U
12674-11-2 Aroclor-1016	41. U	43. U	42. U	41. U	43. U	43. U
11104-28-2 Aroclor-1221	41. U	43. U	42. U	41. U	43. U	43. U
11141-16-5 Aroclor-1232	41. U	43. U	42. U	41. U	43. U	43. U
53469-21-9 Aroclor-1242	41. U	43. U	42. U	41. U	43. U	43. U
12672-29-6 Aroclor-1248	41. U	43. U	42. U	41. U	43. U	43. U
11097-69-1 Aroclor-1254	41. U	43. U	42. U	41. U	43. U	43. U
11096-82-5 Aroclor-1260	41. U	43. U	42. U	41. U	43. U	43. U

*** Validation Complete ***

FD1328 SVOA													
	SAMPLE ID ------->	007-S-0008-01		007-S-0008-11		007-S-0008-22		007-S-0009-01		007-S-0009-08		007-S-0009-23	
	ORIGINAL ID ----->	007S000801		007S000811		007S000822		007S000901		007S000908		007S000923	
	LAB SAMPLE ID --->	116814		116815		116816		116817		116818		116819	
	SAMPLE DATE ----->	02/11/95		02/11/95		02/11/95		02/11/95		02/11/95		02/11/95	
	DATE EXTRACTED -->	02/24/95		02/24/95		02/24/95		02/24/95		02/24/95		02/24/95	
	DATE ANALYZED --->	03/02/95		03/02/95		03/02/95		03/02/95		03/02/95		03/02/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
67-72-1	Hexachloroethane	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
78-59-1	Isophorone	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
88-75-5	2-Nitrophenol	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
105-67-9	2,4-Dimethylphenol	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
111-91-1	bis(2-Chloroethoxy)methane	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
120-83-2	2,4-Dichlorophenol	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
91-20-3	Naphthalene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
106-47-8	4-Chloroaniline	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
87-68-3	Hexachlorobutadiene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
59-50-7	4-Chloro-3-methylphenol	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
91-57-6	2-Methylnaphthalene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
77-47-4	Hexachlorocyclopentadiene	410.	UJ	420.	UJ	400.	UJ	400.	UJ	420.	UJ	420.	UJ
88-06-2	2,4,6-Trichlorophenol	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
95-95-4	2,4,5-Trichlorophenol	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
91-58-7	2-Chloronaphthalene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
88-74-4	2-Nitroaniline	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
131-11-3	Dimethylphthalate	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
208-96-8	Acenaphthylene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
606-20-2	2,6-Dinitrotoluene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
99-09-2	3-Nitroaniline	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
83-32-9	Acenaphthene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
51-28-5	2,4-Dinitrophenol	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
100-02-7	4-Nitrophenol	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
132-64-9	Dibenzofuran	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
121-14-2	2,4-Dinitrotoluene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
84-66-2	Diethylphthalate	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
7005-72-3	4-Chlorophenylphenylether	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
86-73-7	Fluorene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
100-01-6	4-Nitroaniline	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
534-52-1	4,6-Dinitro-2-methylphenol	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
101-55-3	4-Bromophenylphenylether	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
118-74-1	Hexachlorobenzene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U
87-86-5	Pentachlorophenol	990.	U	1000.	U	980.	U	980.	U	1000.	U	1000.	U
85-01-8	Phenanthrene	410.	U	420.	U	400.	U	400.	U	420.	U	420.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 SVOA						
SAMPLE ID ------->	007-S-0008-01	007-S-0008-11	007-S-0008-22	007-S-0009-01	007-S-0009-08	007-S-0009-23
ORIGINAL ID ----->	007S000801	007S000811	007S000822	007S000901	007S000908	007S000923
LAB SAMPLE ID --->	116814	116815	116816	116817	116818	116819
SAMPLE DATE ----->	02/11/95	02/11/95	02/11/95	02/11/95	02/11/95	02/11/95
DATE EXTRACTED -->	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
DATE ANALYZED --->	03/02/95	03/02/95	03/02/95	03/02/95	03/02/95	03/02/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
120-12-7 Anthracene	410. U	420. U	400. U	400. U	420. U	420. U
86-74-8 Carbazole	410. U	420. U	400. U	400. U	420. U	420. U
84-74-2 Di-n-butylphthalate	410. U	420. U	400. U	400. U	520. U	420. U
206-44-0 Fluoranthene	51. J	420. U	400. U	400. U	420. U	420. U
129-00-0 Pyrene	44. J	420. U	400. U	400. U	420. U	420. U
85-68-7 Butylbenzylphthalate	410. U	420. U	400. U	400. U	420. U	420. U
91-94-1 3,3'-Dichlorobenzidine	410. U	420. U	400. U	400. U	420. U	420. U
56-55-3 Benzo(a)anthracene	410. U	420. U	400. U	400. U	420. U	420. U
218-01-9 Chrysene	39. J	420. U	400. U	400. U	420. U	420. U
117-81-7 bis(2-Ethylhexyl)phthalate (BEHP)	410. U	420. U	400. U	400. U	420. U	420. U
117-84-0 Di-n-octylphthalate	410. U	420. U	400. U	400. U	420. U	420. U
205-99-2 Benzo(b)fluoranthene	410. U	420. U	400. U	400. U	420. U	420. U
207-08-9 Benzo(k)fluoranthene	410. U	420. U	400. U	400. U	420. U	420. U
50-32-8 Benzo(a)pyrene	410. U	420. U	400. U	400. U	420. U	420. U
193-39-5 Indeno(1,2,3-cd)pyrene	410. U	420. U	400. U	400. U	420. U	420. U
53-70-3 Dibenzo(a,h)anthracene	410. U	420. U	400. U	400. U	420. U	420. U
191-24-2 Benzo(g,h,i)perylene	410. U	420. U	400. U	400. U	420. U	420. U
108-95-2 Phenol	410. U	420. U	400. U	400. U	420. U	420. U
111-44-4 bis(2-Chloroethyl)ether	410. U	420. U	400. U	400. U	420. U	420. U
95-57-8 2-Chlorophenol	410. U	420. U	400. U	400. U	420. U	420. U
541-73-1 1,3-Dichlorobenzene	410. U	420. U	400. U	400. U	420. U	420. U
106-46-7 1,4-Dichlorobenzene	410. U	420. U	400. U	400. U	420. U	420. U
95-50-1 1,2-Dichlorobenzene	410. U	420. U	400. U	400. U	420. U	420. U
95-48-7 2-Methylphenol (o-Cresol)	410. U	420. U	400. U	400. U	420. U	420. U
108-60-1 2,2'-oxybis(1-Chloropropane)	410. U	420. U	400. U	400. U	420. U	420. U
106-44-5 4-Methylphenol (p-Cresol)	410. U	420. U	400. U	400. U	420. U	420. U
98-95-3 Nitrobenzene	410. U	420. U	400. U	400. U	420. U	420. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 SVOA						
SAMPLE ID ------->	060-S-0005-01	060-S-0005-07	060-S-0005-12	060-S-0006-01	060-S-0006-08	060-S-0006-12
ORIGINAL ID ----->	060S000501	060S000507	060S000512	060S000601	060S000608	060S000612
LAB SAMPLE ID --->	116823	116824	116825	116826	116827	116828
SAMPLE DATE ----->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
DATE EXTRACTED -->	02/26/95	02/26/95	02/26/95	02/26/95	02/26/95	02/26/95
DATE ANALYZED --->	03/03/95	03/03/95	03/03/95	03/03/95	03/03/95	03/03/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A
CAS # Parameter						
621-64-7 N-Nitroso-di-n-propylamine	2000. U	430. U	420. U	410. U	430. U	430. U
67-72-1 Hexachloroethane	2000. U	430. U	420. U	410. U	430. U	430. U
78-59-1 Isophorone	2000. U	430. U	420. U	410. U	430. U	430. U
88-75-5 2-Nitrophenol	2000. U	430. U	420. U	410. U	430. U	430. U
105-67-9 2,4-Dimethylphenol	2000. U	430. U	420. U	410. U	430. U	430. U
111-91-1 bis(2-Chloroethoxy)methane	2000. U	430. U	420. U	410. U	430. U	430. U
120-83-2 2,4-Dichlorophenol	2000. U	430. U	420. U	410. U	430. U	430. U
120-82-1 1,2,4-Trichlorobenzene	2000. U	430. U	420. U	410. U	430. U	430. U
91-20-3 Naphthalene	2000. U	430. U	420. U	410. U	430. U	430. U
106-47-8 4-Chloroaniline	2000. U	430. U	420. U	410. U	430. U	430. U
87-68-3 Hexachlorobutadiene	2000. U	430. U	420. U	410. U	430. U	430. U
59-50-7 4-Chloro-3-methylphenol	2000. U	430. U	420. U	410. U	430. U	430. U
91-57-6 2-Methylnaphthalene	2000. U	430. U	420. U	410. U	430. U	430. U
77-47-4 Hexachlorocyclopentadiene	2000. UJ	430. UJ	420. UJ	410. UJ	430. UJ	430. UJ
88-06-2 2,4,6-Trichlorophenol	2000. U	430. U	420. U	410. U	430. U	430. U
95-95-4 2,4,5-Trichlorophenol	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
91-58-7 2-Chloronaphthalene	2000. U	430. U	420. U	410. U	430. U	430. U
88-74-4 2-Nitroaniline	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
131-11-3 Dimethylphthalate	2000. U	430. U	420. U	410. U	430. U	430. U
208-96-8 Acenaphthylene	2000. U	430. U	420. U	410. U	430. U	430. U
606-20-2 2,6-Dinitrotoluene	2000. U	430. U	420. U	410. U	430. U	430. U
99-09-2 3-Nitroaniline	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
83-32-9 Acenaphthene	2000. U	430. U	420. U	410. U	430. U	430. U
51-28-5 2,4-Dinitrophenol	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
100-02-7 4-Nitrophenol	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
132-64-9 Dibenzofuran	2000. U	430. U	420. U	410. U	430. U	430. U
121-14-2 2,4-Dinitrotoluene	2000. U	430. U	420. U	410. U	430. U	430. U
84-66-2 Diethylphthalate	2000. U	430. U	420. U	410. U	430. U	430. U
7005-72-3 4-Chlorophenylphenylether	2000. U	430. U	420. U	410. U	430. U	430. U
86-73-7 Fluorene	2000. U	430. U	420. U	410. U	430. U	430. U
100-01-6 4-Nitroaniline	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
534-52-1 4,6-Dinitro-2-methylphenol	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
86-30-6 N-Nitrosodiphenylamine	2000. U	430. U	420. U	410. U	430. U	430. U
101-55-3 4-Bromophenylphenylether	2000. U	430. U	420. U	410. U	430. U	430. U
118-74-1 Hexachlorobenzene	2000. U	430. U	420. U	410. U	430. U	430. U
87-86-5 Pentachlorophenol	4900. U	1100. U	1000. U	990. U	1100. U	1100. U
85-01-8 Phenanthrene	2000. U	430. U	420. U	40. J	430. U	430. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 SVOA													
	SAMPLE ID ------->	060-S-0005-01		060-S-0005-07		060-S-0005-12		060-S-0006-01		060-S-0006-08		060-S-0006-12	
	ORIGINAL ID ----->	060S000501		060S000507		060S000512		060S000601		060S000608		060S000612	
	LAB SAMPLE ID --->	116823		116824		116825		116826		116827		116828	
	SAMPLE DATE ----->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE EXTRACTED -->	02/26/95		02/26/95		02/26/95		02/26/95		02/26/95		02/26/95	
	DATE ANALYZED --->	03/03/95		03/03/95		03/03/95		03/03/95		03/03/95		03/03/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
86-74-8	Carbazole	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
84-74-2	Di-n-butylphthalate	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
206-44-0	Fluoranthene	2000.	U	430.	U	420.	U	68.	J	430.	U	430.	U
129-00-0	Pyrene	2000.	U	430.	U	420.	U	62.	J	430.	U	430.	U
85-68-7	Butylbenzylphthalate	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
91-94-1	3,3'-Dichlorobenzidine	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
56-55-3	Benzo(a)anthracene	2000.	U	430.	U	420.	U	46.	J	430.	U	430.	U
218-01-9	Chrysene	2000.	U	430.	U	420.	U	53.	J	430.	U	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
117-84-0	Di-n-octylphthalate	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
205-99-2	Benzo(b)fluoranthene	2000.	U	430.	U	420.	U	59.	J	430.	U	430.	U
207-08-9	Benzo(k)fluoranthene	2000.	U	430.	U	420.	U	54.	J	430.	U	430.	U
50-32-8	Benzo(a)pyrene	2000.	U	430.	U	420.	U	56.	J	430.	U	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
53-70-3	Dibenzo(a,h)anthracene	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
191-24-2	Benzo(g,h,i)perylene	2000.	U	430.	U	420.	U	88.	J	430.	U	430.	U
108-95-2	Phenol	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
111-44-4	bis(2-Chloroethyl)ether	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
95-57-8	2-Chlorophenol	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
541-73-1	1,3-Dichlorobenzene	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
106-46-7	1,4-Dichlorobenzene	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
95-50-1	1,2-Dichlorobenzene	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
95-48-7	2-Methylphenol (o-Cresol)	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
106-44-5	4-Methylphenol (p-Cresol)	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U
98-95-3	Nitrobenzene	2000.	U	430.	U	420.	U	410.	U	430.	U	430.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 TOC							
	SAMPLE ID ------->	005-S-DESI-GN	007-S-DESI-GN				
	ORIGINAL ID ----->	005SDESIGN	007SDESIGN				
	LAB SAMPLE ID --->	116834	116835				
	SAMPLE DATE ----->	02/13/95	02/13/95				
	DATE ANALYZED --->	02/20/95	02/20/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	mg/Kg A	mg/Kg A				
CAS #	Parameter						
9999900-01-4	Total Organic Carbon (TOC)	1300.	1200.				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 TOTAL PHOS						
	SAMPLE ID ------->	005-S-DESI-GN	007-S-DESI-GN			
	ORIGINAL ID ----->	005SDESIGN	007SDESIGN			
	LAB SAMPLE ID --->	116834	116835			
	SAMPLE DATE ----->	02/13/95	02/13/95			
	DATE ANALYZED --->	03/03/95	03/03/95			
	MATRIX ---------->	Soil	Soil			
	UNITS ---------->	mg/Kg A	mg/Kg A			
CAS #	Parameter					
9999900-03-5	Phosphorus Total	1400.	1800.			

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 TPH						
SAMPLE ID ------->	007-S-0008-01	007-S-0008-11	007-S-0008-22	007-S-0009-01	007-S-0009-08	007-S-0009-23
ORIGINAL ID ----->	007S000801	007S000811	007S000822	007S000901	007S000908	007S000923
LAB SAMPLE ID --->	116795	116796	116797	116798	116799	116800
SAMPLE DATE ----->	02/11/95	02/11/95	02/11/95	02/11/95	02/11/95	02/11/95
DATE EXTRACTED -->	03/08/95	03/08/95	03/08/95	03/08/95	03/08/95	03/08/95
DATE ANALYZED --->	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	3900.	84. U	80. U	79. U	83. U	83. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 TPH						
SAMPLE ID ------->	060-S-0005-01	060-S-0005-07	060-S-0005-12	060-S-0006-01	060-S-0006-08	060-S-0006-12
ORIGINAL ID ----->	060S000501	060S000507	060S000512	060S000601	060S000608	060S000612
LAB SAMPLE ID --->	116804	116805	116806	116807	116808	116809
SAMPLE DATE ----->	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95	02/13/95
DATE EXTRACTED -->	03/08/95	03/08/95	03/08/95	03/08/95	03/08/95	03/08/95
DATE ANALYZED --->	03/17/95	03/17/95	03/17/95	03/17/95	03/17/95	03/17/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	1500.	85. U	84. U	700. U	82. U	87. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 VOA													
	SAMPLE ID ------->	007-S-0008-01		007-S-0008-11		007-S-0008-22		007-S-0009-01		007-S-0009-08		007-S-0009-23	
	ORIGINAL ID ----->	007S000801		007S000811		007S000822		007S000901		007S000908		007S000923	
	LAB SAMPLE ID --->	116814		116815		116816		116817		116818		116819	
	SAMPLE DATE ----->	02/11/95		02/11/95		02/11/95		02/11/95		02/11/95		02/11/95	
	DATE ANALYZED --->	02/25/95		02/19/95		02/19/95		02/24/95		02/20/95		02/20/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	60.	U	13.	U	6.	J	12.	U	1.	J	12.	U
74-83-9	Bromomethane	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-01-4	Vinyl chloride	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-00-3	Chloroethane	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-09-2	Methylene chloride	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
67-64-1	Acetone	1100.	DJ	13.	UJ	62.	J	66.		13.	UJ	65.	UJ
75-15-0	Carbon disulfide	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
75-35-4	1,1-Dichloroethene	60.	UJ	13.	U	12.	U	12.	U	13.	U	12.	U
75-34-3	1,1-Dichloroethane	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
540-59-0	1,2-Dichloroethene (total)	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
67-66-3	Chloroform	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
107-06-2	1,2-Dichloroethane	60.	U	13.	U	12.	U	12.	U	13.	U	12.	U
78-93-3	2-Butanone (MEK)	60.	UJ	13.	U	12.	UJ	5.	J	13.	UJ	12.	UJ
71-55-6	1,1,1-Trichloroethane	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
56-23-5	Carbon tetrachloride	60.	U	13.	U	12.	UJ	12.	U	13.	UJ	12.	UJ
75-27-4	Bromodichloromethane	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
78-87-5	1,2-Dichloropropane	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
10061-01-5	cis-1,3-Dichloropropene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
79-01-6	Trichloroethene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
124-48-1	Dibromochloromethane	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
79-00-5	1,1,2-Trichloroethane	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
71-43-2	Benzene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
10061-02-6	trans-1,3-Dichloropropene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
75-25-2	Bromoform	60.	UJ	13.	U	12.	UJ	12.	U	13.	U	12.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	60.	UJ	13.	U	12.	UJ	12.	UJ	13.	U	12.	U
591-78-6	2-Hexanone	60.	UJ	13.	U	12.	UJ	12.	UJ	13.	U	12.	U
127-18-4	Tetrachloroethene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	60.	UJ	13.	U	12.	UJ	12.	U	13.	U	12.	U
108-88-3	Toluene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
108-90-7	Chlorobenzene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
100-41-4	Ethylbenzene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
100-42-5	Styrene	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U
1330-20-7	Xylene (Total)	60.	U	13.	U	12.	UJ	12.	U	13.	U	12.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1328 VOA													
	SAMPLE ID ------->	060-S-0005-01		060-S-0005-07		060-S-0005-12		060-S-0006-01		060-S-0006-08		060-S-0006-12	
	ORIGINAL ID ----->	060S000501		060S000507		060S000512		060S000601		060S000608		060S000612	
	LAB SAMPLE ID --->	116823		116824		116825		116826		116827		116828	
	SAMPLE DATE ----->	02/13/95		02/13/95		02/13/95		02/13/95		02/13/95		02/13/95	
	DATE ANALYZED --->	02/25/95		02/24/95		02/25/95		02/25/95		02/25/95		02/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
74-83-9	Bromomethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
75-01-4	Vinyl chloride	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
75-00-3	Chloroethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
75-09-2	Methylene chloride	12.	U	1.	J	13.	U	12.	U	12.	U	13.	U
67-64-1	Acetone	12.	UJ	33.	U	13.	U	44.	U	40.	U	13.	U
75-15-0	Carbon disulfide	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
75-35-4	1,1-Dichloroethene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
75-34-3	1,1-Dichloroethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
67-66-3	Chloroform	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
107-06-2	1,2-Dichloroethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
78-93-3	2-Butanone (MEK)	12.	U	4.	J	13.	U	12.	U	12.	U	13.	U
71-55-6	1,1,1-Trichloroethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
56-23-5	Carbon tetrachloride	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
75-27-4	Bromodichloromethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
78-87-5	1,2-Dichloropropane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
79-01-6	Trichloroethene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
124-48-1	Dibromochloromethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
79-00-5	1,1,2-Trichloroethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
71-43-2	Benzene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
75-25-2	Bromoform	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ	13.	UJ
591-78-6	2-Hexanone	12.	UJ	13.	UJ	13.	UJ	12.	UJ	12.	UJ	13.	UJ
127-18-4	Tetrachloroethene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
108-88-3	Toluene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
108-90-7	Chlorobenzene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
100-41-4	Ethylbenzene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
100-42-5	Styrene	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U
1330-20-7	Xylene (Total)	12.	U	13.	U	13.	U	12.	U	12.	U	13.	U

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00528,95.00529,95.00593,95.00594 (Level III Validation)
Case Nº:	FD1329

Sample Identification	Matrix
001S000101	Soil
001E021495	Water
001F021595	Water
001S000101S	Soil
001S000101D	Soil

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INTRODUCTION

This data review report covers 3 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form 10), inter-element corrections (Form 11 A & B) and linear range analysis (Form 12) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank		Field, Trip, or other blank(µg/L)	Action Level (5x high. blk.)		Associated Samples
				(mg/kg)	(µg/L)		(mg/kg)	(µg/L)	
Lead	2.0					2.2	2.2	11.0	All
Selenium	2.0	2.0					2.0	10.0	All
Thallium	2.0		-2.0				2.0	10.0	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (mg/kg)	Modified Final Concentration (mg/kg)
001S000101	Selenium	0.69B	0.69U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

Element	%RPD	QC Limit	|S-D|	Control Limit	Associated Samples	Flag
Barium			199.8	94.8	001S000101	J(detect)/None(non-detect)
Chromium	49.8%	≤35%			001S000101	J(detect)/UJ(non-detect)
Lead	113.2%	≤35%			001S000101	J(detect)/UJ(non-detect)

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	%R	QC Limit %R	Associated Samples	Flag
Antimony	36.9%	75-125%	001S000101	J(detect)/UJ(non-detect)
Barium	49.8%	75-125%	001S000101	J(detect)/UJ(non-detect)
Selenium	69.0%	75-125%	001S000101	J(detect)/UJ(non-detect)
Silver	42.2%	75-125%	001S000101	J(detect)/UJ(non-detect)
Lead	-6091.6%	75-125%	001S000101	J(detect)/UJ(non-detect)

Post digestive/distillation spike was performed for element outside of the control recovery limit.

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within ≥20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
001S000101	Thallium	115.8	85-115%	J(detect)/UJ(non-detect)
001S000101	Selenium	69.0	85-115%	J(detect)/UJ(non-detect)

MSA was performed and the results were within QC limit of >0.995.

MSA was required for the following but were not performed:

Sample	Element	Flag
001S000101	Thallium, Selenium	J(detect)/UJ(non-detect)

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

No raw data was carried out for this package.

XI. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1329

Case Nº	Sample ID	Parameter	Flag	Reason
FD1329	001S000101	Selenium	0.69U	Blank contamination
FD1329	001S000101	Barium Chromium Lead	J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect)	Duplicate |S-D| Duplicate %RPD Duplicate %RPD
FD1329	001S000101	Antimony Barium Selenium Silver Lead	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	MS %R MS %R MS %R MS %R MS %R
FD1329	001S000101	Thallium Selenium	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Analytical spike %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 2)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00528, 95.00529, 95.00593, and 95.00594 (Level IV Validation)
Case Nº:	FD1329

Sample Identification	Matrix
001T021595	Water
007T022395	Water
007T022495	Water
001S001107	Soil
001S000101	Soil
007S000128	Soil
007S000953	Soil
007S005100	Soil

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INTRODUCTION

This data review report covers 5 soil samples and 3 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements.

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency. The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all the continuing calibration RRF values met QC requirements except for the following:

Date/Time	Instrument	Compound	%D (Guideline QC Limit)	Associated Samples	Flag
02/24/95 17:07	HP5970H	4-Methyl-2-pentanone 2-Hexanone	27.1(±25.0) 28.9(±25.0)	001S000101	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
02/25/95 09:58	HP5970H	2-Butanone 4-Methyl-2-pentanone 2-Hexanone	-44.2 (±25.0) -29.4 (±25.0) -39.6 (±25.0)	007S000953	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/06/95 11:15	HP5970H	Vinyl chloride Acetone 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	-29.7 (±25.0) 32.1 (±25.0) 42.7 (±25.0) 35.8 (±25.0) 39.0 (±25.0)	007S001107	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s).

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) are listed as follow:

Blank	Compound	Concentration (ug/L)	Action Level (ug/L)		Associated Samples	Reported Conc.	Modified Final Conc.
			5 x	10 x			
001T021595	Methylene Chloride	1J		10	001S000101 007S000953	2J 12u	12u None

Blank	Compound	Concentration (ug/L)	Action Level (ug/L)		Associated Samples	Reported Conc.	Modified Final Conc.
			5 x	10 x			
007T022395	Methylene Chloride	2J		20	007S005100	13u	None
007T022495	Chloromethane	9J	45		007S000128 007S001107	12u 13u	None None
007T022495	Methylene Chloride	2J		20	007S000128 007S001107	12u 2J	none 13u

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SOW.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed in this SDG.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements except for the following:

Sample	Internal Standard	Area Count	Area Count QC Limit	Compounds Affected	Flag
001S000101	Chlorobenzene-d5	52700	62000-248000	Chlorobenzene Ethylbenzene 2-Hexanone 4-Methyl-2-pentanone Styrene 1,1,2,2-Tetrachloroethane Toluene Xylene	J(detect)UJ(non-detect) J(detect)UJ(non-detect) J(detect)UJ(non-detect) J(detect)UJ(non-detect) J(detect)UJ(non-detect) J(detect)UJ(non-detect) J(detect)UJ(non-detect) J(detect)UJ(non-detect)

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated. Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLS of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements except for the following.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms, mass spectra, in every sample and blank were examined to verify the reported TIC, their quantitations were reported according to CLP SOW 12/90. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1329

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1329	001S000101	4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1329	007S000953	2-Butanone 4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1329	001S000101 007S001107	Methylene Chloride Methylene Chloride	12u 13u	Field Blank Contamination
FD1329	001S000101	Chlorobenzene Ethylbenzene 2-Hexanone 4-Methyl-2-pentanone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene Xylene Toluene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Internal STD Chlorobenzene-d5 out

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
Job No:	FD1329

Sample Identification	Matrix
001E021495	Water
001F021595	Water
001S000101	Soil

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INTRODUCTION

This data review report covers 01 soil samples and 02 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/21/95 09:13	HP5970F	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	43.7 (≤30) 30.6 (≤30)	001S000101	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements.

V. BLANKS

The method blank analyses were performed at required frequencies.

Contaminants found in the method blank(s) that resulted in data qualification are listed as follow:

Date	Blank	Compound	Concentration (x/x)	Action Level (x/x)		Affected Samples	Reported Concentration (x/x)	Modified Final Concentration (x/x)
				5 x	10 x			
02/26/95	SBLK022695F	Di-n-butylphthalate	350		3500	001S00101	2000U	None

No field blank was analyzed.

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846.

All surrogate spike recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1329

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1329	001S000101	Hexachlorocyclopentadiene 1,2-Dichlorobenzene-d4	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial Calibration %RSD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00528, 95.00529, 95.00593, and 95.00594 (Level III Validation)
Case Nº:	FD1329

Sample Identification	Matrix
001E021495	Water
001F021495	Water
001S000101	Soil
001S000101DL	Soil

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INTRODUCTION

This data review report covers 2 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSD for calibration factors of single component analytes were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %D were within QC limit for the primary column except for the following:

Date/ Time	Column/ Standard	Compounds	%D	QC Limit	Associated Samples	Flag
03/16/95 01:16	RTX35/INDBM09	Endrin aldehyde	-19.75	$\leq \pm 15.0\%$	001S000101	J(detect)/UJ(non-detect)
03/17/95 18:06	RTX35/INDBM12	Endrin aldehyde	-17.97	$\leq \pm 15.0\%$	001S000101DL	J(detect)/UJ(non-detect)
03/17/95 23:52	RTX35/INDAM13	4,4'-DDT	25.66	$\leq \pm 15.0\%$	001S000101DL	J(detect)/UJ(non-detect)
03/18/95 00:35	RTX35/INDBM13	delta-BHC	-22.26	$\leq \pm 15.0\%$	001S000101DL	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination. RT windows were all within QC limit.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

Not required by SW846.

IX. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed.

The following %Ds between two columns were out of QC limit.

Sample	Compound	%D (QC Limit)	Flag
001S000101	Heptachlor epoxide	38.5 (≤25%)	J(detect)/UJ(non-detect)
	4,4'-DDE	90.5 (≤25%)	J(detect)/UJ(non-detect)
	4,4'-DDT	58.5 (≤25%)	J(detect)/UJ(non-detect)
	Tech-chlordane	46.2 (≤25%)	J(detect)/UJ(non-detect)

The following retention time were outside the windows.

Sample	Compound	Column	RT (Window)	Flag
001S000101DL	Dieldrin	XT15 RTX35	16.15 (16.23-16.37) 19.74 (19.81-19.95)	J(detect)/UJ(non-detect)

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

Dieldrin in sample 001S000101 was out of range. Sample was diluted 10x. The result of Dieldrin in diluted sample was used to replace the results in the undiluted sample.

Sample	Compound	Reported Result	Modified Result
001S000101	Dieldrin	192E	178D

XII. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1329

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1329	001S000101	Endrin aldehyde	J(detect)/UJ(non-detect)	Continuing calibration %D
FD1329	001S000101DL	Endrin aldehyde 4,4'-DDT delta-BHC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1329	001S000101	Heptachlor epoxide 4,4'-DDE 4,4'-DDT Tech-chlordane	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Compound identification %D
FD1329	001S000101DL	Dieldrin	J(detect)/UJ(non-detect)	Compound identification RT
FD1329	001S000101	Dieldrin	178D	Results from diluted sample

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job №:	95.00528, 95.00529, 95.00593, and 95.00594 (Level III Validation)
Case №:	FD1329

Sample Identification	Matrix
001E021495	Water
001F021595	Water
001S000101	Soil

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INTRODUCTION

This data review report covers 1 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard	Compounds	%RSD	QC Limit	Associated Samples	Flag
02/22/95 20:40	RF250	Mevinphos alpha	22.7	≤20%	001S000101	J(detect)/UJ(non-detect)
	RF500	Fensulfothion	31.4	≤20%		J(detect)/UJ(non-detect)
	RF1000	Guthion	70.3	≤20%		J(detect)/UJ(non-detect)
	RF2000	Coumaphos	36.1	≤20%		J(detect)/UJ(non-detect)
	RF4000					

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
03/05/95 09:59	RF1000	Dichlorvos	30.8 (≤15%)	001S000101	J(detect)/UJ(non-detect)
		Mevinphos alpha	37.4 (≤15%)		J(detect)/UJ(non-detect)
		Demeton, o	-43.9 (≤15%)		J(detect)/UJ(non-detect)
		Phorate	-20.5 (≤15%)		J(detect)/UJ(non-detect)
		Trichloronate	-15.8 (≤15%)		J(detect)/UJ(non-detect)
		Tokuthion	-17.6 (≤15%)		J(detect)/UJ(non-detect)
		Fensulfothion	-30.9 (≤15%)		J(detect)/UJ(non-detect)
		Sulprofos	-24.9 (≤15%)		J(detect)/UJ(non-detect)
		Guthion	-133.8 (≤15%)		J(detect)/UJ(non-detect)
		Coumaphos	-82.3 (≤15%)		J(detect)/UJ(non-detect)
03/05/95 03:22	RF1000	Dichlorvos	34.9 (≤15%)	001S000101	J(detect)/UJ(non-detect)
		Mevinphos, alpha	43.9 (≤15%)		J(detect)/UJ(non-detect)
		Demeton, o	-36.5 (≤15%)		J(detect)/UJ(non-detect)
		Phorate	-15.8 (≤15%)		J(detect)/UJ(non-detect)
		Tokuthion	-16.2 (≤15%)		J(detect)/UJ(non-detect)
		Stirophos	37.0 (≤15%)		J(detect)/UJ(non-detect)
		Sulprofos	-22.0 (≤15%)		J(detect)/UJ(non-detect)
		Guthion	-41.7 (≤15%)		J(detect)/UJ(non-detect)
		Coumaphos	-56.1 (≤15%)		J(detect)/UJ(non-detect)

V. BLANKS

Instrument blanks were performed at the required frequency and were free of contamination.

The method blanks were extracted and performed according to the SW846. The blanks were free of contamination.

The field blanks were extracted and performed according to the SW846. The blanks were free of contamination.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/05/95	NLCS10227S	RTX35	Stirophos	43.3 (50-150%)		001S000101	J(detect)/UJ(non-detect)
03/05/95	NLCS10227S	RTX5	Merphos	0.8 (50-150%)		001S000101	J(detect)/R(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XI. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG № FD1329

SDG №	Sample ID	Parameter	Flag	Reason
FD1329	001S000101	Mevinphos, alpha Fensulfothion Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1329	001S000101	Dichlorvos Mevinphos, alpha Demeton, o Phorate Trichloronate Tokuthion Fensulfothion Sulprofos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1329	001S000101	Dichlorvos Mevinphos, alpha Demeton, o Phorate Tokuthion Stirophos Sulprofos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D
FD1329	001S000101	Stirophos Merphos	J(detect)/UJ(non-detect) J(detect)/R(non-detect)	Laboratory control sample %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00528, 95.00593, 95.00529, 95.00594 (Level III Validation)
Case Nº:	FD1329

Sample Identification	Matrix
001E021495	Water
001F021595	Water
001S000101	Soil

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INTRODUCTION

This data review report covers 1 soil samples and 2 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard	Compounds	%RSD RTX-35	%RSD RTX-5	QC Limit	Associated Samples	Flag
03/14/95 21:42	RF10X RF1X RF20X RF2X RF4X	Dinoseb MCPP MCPA	40.3	 27.0 22.5	≤20% ≤20% ≤20%	01S000101	J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B).

V. BLANKS

Instrument blanks were performed at the required frequency. No contaminant was found in the instrument blanks that resulted in data qualifications.

The method blanks were extracted and performed according to the SW846. No contaminant was found in the method blanks that resulted in data qualifications.

The field blanks were extracted and performed according to the SW846. No contaminant was found in the field blanks that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	System Monitoring Compound	%R Primary Column	%R Secondary Column	Adv. Limit	Compounds Affected	Flag
001S000101	DCAA	23	29	(31-147)	All compounds	J(detect)/UJ(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
HLCS02275	RTX-35	Dinoseb	0.00(10-150)	0.00(23.90.24)	001S000101	J(detect)/R(non-detect)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were properly identified.

%Ds between two columns were within QC limits except for the following:

Sample	Compound	Column	%D	QC Limit	Flag
001S000101	MCPP	RTX35	31.8	≤25%	J (detect)
	Dichloroprop	RTX35	69.7	≤25%	J (detect)
	Silvex	RTX35	47.4	≤25%	J (detect)

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1329

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1329	001S000101	Dinoseb MCPP MCPA	J(detect)/UJ(non-detect)	Initial calibration %RSD
FD1329	001S000101	All compounds	J(detect)/UJ(non-detect)	Surrogate spike %R
FD1329	001S000101	Dinoseb	J(detect)/R(non-detect)	Laboratory control sample %R
FD1329	001S000101	MCPP Dichloroprop Silvex	J	Compound identification %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00528, 95.00529, 95.00593, & 95.00594 (Level III Validation)
Case Nº:	FD1329

Sample Identification	Matrix
001E021495	Water
001F021595	Water
005F021595	Water
001S000101	Soil
005S000801	Soil
005S000901	Soil
005S001001	Soil
005S001101	Soil

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INTRODUCTION

This data review report covers 5 soil samples and 3 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

No continuing calibration was necessary since all analysis were done on the same day as initial calibration.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s).

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s).

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed in this SDG.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

X. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1329

No data were qualified for this SDG.

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1329	SAMPLE ID ------->	001-S-0001-01					
HERB	ORIGINAL ID ----->	001S000101					
	LAB SAMPLE ID --->	116978					
	SAMPLE DATE ----->	02/15/95					
	DATE EXTRACTED -->	03/03/95					
	DATE ANALYZED --->	03/15/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	ug/Kg	A				
CAS #	Parameter						
94-82-6	2,4-DB	9.2	UJ				
88-85-7	Dinoseb	4.6	UR				
93-76-5	2,4,5-T	0.92	UJ				
93-72-1	2,4,5-TP (Silvex)	19.	J				
75-99-0	Dalapon	22.	UJ				
1918-00-9	Dicamba	9.1	UJ				
120-36-5	Dichlorprop	49.	J				
94-74-6	MCPA	910.	UJ				
93-65-2	MCPP	12000.	J				
94-75-7	2,4-D	9.1	UJ				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1329 METAL			
	SAMPLE ID ------->	001-S-0001-01	
	ORIGINAL ID ----->	001S000101	
	LAB SAMPLE ID --->	9-116987S	
	SAMPLE DATE ----->	02/15/95	
	MATRIX ---------->	Soil	
	UNITS ---------->	MG/KG	A
CAS #	Parameter		
SB	Antimony	9.5	UJ
AS	Arsenic	4.5	
BA	Barium	276.	J
BE	Beryllium	0.36	J
CD	Cadmium	2.	
CR	Chromium	23.1	J
CO	Cobalt	6.1	J
CU	Copper	10.8	
PB	Lead	380.	J
HG	Mercury	0.1	U
NI	Nickel	10.	
SE	Selenium	0.69	UJ
AG	Silver	0.71	UJ
TL	Thallium	0.47	UJ
V	Vanadium	18.2	
ZN	Zinc	97.9	
SN	Tin	3.6	U
AL	Aluminum	NR	
CA	Calcium	NR	
FE	Iron	NR	
MG	Magnesium	NR	
MN	Manganese	NR	
K	Potassium	NR	
NA	Sodium	NR	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1329	SAMPLE ID ------->	001-S-0001-01					
METAL-CN	ORIGINAL ID ----->	001S000101					
	LAB SAMPLE ID --->	116978					
	SAMPLE DATE ----->	02/15/95					
	DATE EXTRACTED -->	02/20/95					
	DATE ANALYZED --->	02/27/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	mg/Kg A					
CAS #	Parameter						
CN	Cyanide	0.51 U					

*** Validation Complete ***

FD1329	SAMPLE ID ------->	001-S-0001-01					
OP PEST	ORIGINAL ID ----->	001S000101					
	LAB SAMPLE ID --->	116978					
	SAMPLE DATE ----->	02/15/95					
	DATE EXTRACTED -->	03/01/95					
	DATE ANALYZED --->	03/05/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	ug/Kg A					
CAS #	Parameter						
86-50-0	Guthion	190.	UJ				
35400-43-2	Sulprofos	97.	UJ				
2921-88-2	Chloropyrifos	97.	U				
56-72-4	Coumaphos	97.	UJ				
8065-48-3	Demeton,O	97.	UJ				
333-41-5	Diazinon	97.	U				
62-73-7	Dichlorvos	97.	UJ				
298-04-4	Disulfoton	97.	U				
13194-48-4	Ethoprop	97.	U				
115-90-2	Fensulfothion	97.	UJ				
55-38-9	Fenthion	97.	U				
150-50-5	Merphos	97.	UR				
7786-34-7	Mevinphos, Alpha	97.	UJ				
300-76-5	Naled	97.	U				
298-00-0	Methyl parathion	97.	U				
298-02-2	Phorate	97.	UJ				
299-84-3	Ronnel	97.	U				
22248-79-9	Stirophos (Tetrachlorovinphos)	97.	UJ				
34643-46-4	Tokuthion	97.	UJ				
327-98-0	Trichloronate	97.	UJ				
126-75-0	Demeton,S	97.	U				

*** Validation Complete ***

FD1329	SAMPLE ID ------->	001-S-0001-01					
PEST	ORIGINAL ID ----->	001S000101					
	LAB SAMPLE ID --->	116987					
	SAMPLE DATE ----->	02/15/95					
	DATE EXTRACTED -->	02/27/95					
	DATE ANALYZED --->	03/16/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG A					
CAS #	Parameter						
319-84-6	alpha-BHC	2.	U				
319-85-7	beta-BHC	2.	U				
319-86-8	delta-BHC	2.	U				
58-89-9	gamma-BHC (Lindane)	2.	U				
76-44-8	Heptachlor	2.	U				
309-00-2	Aldrin	2.	U				
1024-57-3	Heptachlor epoxide	3.6	J				
959-98-8	Endosulfan I	2.	U				
60-57-1	Dieldrin	178.	JD				
72-55-9	4,4'-DDE	12.	J				
72-20-8	Endrin	3.9	U				
33213-65-9	Endosulfan II	3.9	U				
72-54-8	4,4'-DDD	12.					
1031-07-8	Endosulfan sulfate	3.9	U				
50-29-3	4,4'-DDT	27.	J				
72-43-5	Methoxychlor	20.	U				
53494-70-5	Endrin ketone	3.9	U				
7421-36-3	Endrin aldehyde	3.9	UJ				
5103-71-9	alpha-Chlordane	2.	U				
5103-74-2	gamma-Chlordane	2.	U				
8001-35-2	Toxaphene	39.	U				
12674-11-2	Aroclor-1016	39.	U				
11104-28-2	Aroclor-1221	39.	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	39.	U				

*** Validation Complete ***

FD1329	SAMPLE ID ------->	001-S-0001-01					
SVOA	ORIGINAL ID ----->	001S000101					
	LAB SAMPLE ID --->	116987					
	SAMPLE DATE ----->	02/15/95					
	DATE EXTRACTED -->	02/26/95					
	DATE ANALYZED --->	03/03/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG A					
CAS #	Parameter						
621-64-7	N-Nitroso-di-n-propylamine	2000.	U				
67-72-1	Hexachloroethane	2000.	U				
78-59-1	Isophorone	2000.	U				
88-75-5	2-Nitrophenol	2000.	U				
105-67-9	2,4-Dimethylphenol	2000.	U				
111-91-1	bis(2-Chloroethoxy)methane	2000.	U				
120-83-2	2,4-Dichlorophenol	2000.	U				
120-82-1	1,2,4-Trichlorobenzene	2000.	U				
91-20-3	Naphthalene	2000.	U				
106-47-8	4-Chloroaniline	2000.	U				
87-68-3	Hexachlorobutadiene	2000.	U				
59-50-7	4-Chloro-3-methylphenol	2000.	U				
91-57-6	2-Methylnaphthalene	2000.	U				
77-47-4	Hexachlorocyclopentadiene	2000.	UJ				
88-06-2	2,4,6-Trichlorophenol	2000.	U				
95-95-4	2,4,5-Trichlorophenol	4800.	U				
91-58-7	2-Chloronaphthalene	2000.	U				
88-74-4	2-Nitroaniline	4800.	U				
131-11-3	Dimethylphthalate	2000.	U				
208-96-8	Acenaphthylene	2000.	U				
606-20-2	2,6-Dinitrotoluene	2000.	U				
99-09-2	3-Nitroaniline	4800.	U				
83-32-9	Acenaphthene	2000.	U				
51-28-5	2,4-Dinitrophenol	4800.	U				
100-02-7	4-Nitrophenol	4800.	U				
132-64-9	Dibenzofuran	2000.	U				
121-14-2	2,4-Dinitrotoluene	2000.	U				
84-66-2	Diethylphthalate	2000.	U				
7005-72-3	4-Chlorophenylphenylether	2000.	U				
86-73-7	Fluorene	2000.	U				
100-01-6	4-Nitroaniline	4800.	U				
534-52-1	4,6-Dinitro-2-methylphenol	4800.	U				
86-30-6	N-Nitrosodiphenylamine	2000.	U				
101-55-3	4-Bromophenylphenylether	2000.	U				
118-74-1	Hexachlorobenzene	2000.	U				
87-86-5	Pentachlorophenol	4800.	U				
85-01-8	Phenanthrene	2000.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1329	SAMPLE ID ------->	001-S-0001-01					
SVOA	ORIGINAL ID ----->	001S000101					
	LAB SAMPLE ID --->	116987					
	SAMPLE DATE ----->	02/15/95					
	DATE EXTRACTED -->	02/26/95					
	DATE ANALYZED --->	03/03/95					
	MATRIX ---------->	Soil					
	UNITS ---------->	UG/KG A					
CAS #	Parameter						
120-12-7	Anthracene	2000.	U				
86-74-8	Carbazole	2000.	U				
84-74-2	Di-n-butylphthalate	2000.	U				
206-44-0	Fluoranthene	2000.	U				
129-00-0	Pyrene	2000.	U				
85-68-7	Butylbenzylphthalate	2000.	U				
91-94-1	3,3'-Dichlorobenzidine	2000.	U				
56-55-3	Benzo(a)anthracene	2000.	U				
218-01-9	Chrysene	2000.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	2000.	U				
117-84-0	Di-n-octylphthalate	2000.	U				
205-99-2	Benzo(b)fluoranthene	2000.	U				
207-08-9	Benzo(k)fluoranthene	2000.	U				
50-32-8	Benzo(a)pyrene	2000.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	2000.	U				
53-70-3	Dibenzo(a,h)anthracene	2000.	U				
191-24-2	Benzo(g,h,i)perylene	2000.	U				
108-95-2	Phenol	2000.	U				
111-44-4	bis(2-Chloroethyl)ether	2000.	U				
95-57-8	2-Chlorophenol	2000.	U				
541-73-1	1,3-Dichlorobenzene	2000.	U				
106-46-7	1,4-Dichlorobenzene	2000.	U				
95-50-1	1,2-Dichlorobenzene	2000.	U				
95-48-7	2-Methylphenol (o-Cresol)	2000.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	2000.	U				
106-44-5	4-Methylphenol (p-Cresol)	2000.	U				
98-95-3	Nitrobenzene	2000.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

FD1329 TPH						
SAMPLE ID ------->	001-S-0001-01	005-S-0008-01	005-S-0009-01	005-S-0010-01	005-S-0011-01	
ORIGINAL ID ----->	001S000101	005S000801	005S000901	005S001001	005S001101	
LAB SAMPLE ID --->	116978	116981	116982	116983	116984	
SAMPLE DATE ----->	02/15/95	02/14/95	02/14/95	02/15/95	02/15/95	
DATE EXTRACTED -->	03/15/95	03/15/95	03/15/95	03/15/95	03/15/95	
DATE ANALYZED --->	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95	
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	
UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	1300.	83. U	82. U	85. U	83. U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

FD1329 VOA											
	SAMPLE ID ------->	001-S-0001-01		007-S-0001-28		007-S-0009-53		007-S-0011-07		007-S-0051-00	
	ORIGINAL ID ----->	001S000101		007S000128		007S000953		007S001107		007S005100	
	LAB SAMPLE ID --->	116987		117222		116990		117223		117220	
	SAMPLE DATE ----->	02/15/95		02/24/95		02/15/95		02/24/95		02/21/95	
	DATE ANALYZED --->	02/25/95		03/03/95		02/25/95		03/06/95		03/02/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter										
74-87-3	Chloromethane	12.	U	12.	U	12.	U	13.	U	13.	U
74-83-9	Bromomethane	12.	U	12.	U	12.	U	13.	U	13.	U
75-01-4	Vinyl chloride	12.	U	12.	U	12.	U	13.	UJ	13.	U
75-00-3	Chloroethane	12.	U	12.	U	12.	U	13.	U	13.	U
75-09-2	Methylene chloride	12.	U	12.	U	12.	U	13.	U	13.	U
67-64-1	Acetone	12.	U	3.	J	12.	U	5.	J	16.	
75-15-0	Carbon disulfide	12.	U	12.	U	12.	U	13.	U	13.	U
75-35-4	1,1-Dichloroethene	12.	U	12.	U	12.	U	13.	U	13.	U
75-34-3	1,1-Dichloroethane	12.	U	12.	U	12.	U	13.	U	13.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	12.	U	12.	U	13.	U	13.	U
67-66-3	Chloroform	12.	U	12.	U	12.	U	13.	U	13.	U
107-06-2	1,2-Dichloroethane	12.	U	12.	U	12.	U	13.	U	13.	U
78-93-3	2-Butanone (MEK)	12.	U	12.	U	12.	UJ	13.	UJ	13.	U
71-55-6	1,1,1-Trichloroethane	12.	U	12.	U	12.	U	13.	U	13.	U
56-23-5	Carbon tetrachloride	12.	U	12.	U	12.	U	13.	U	13.	U
75-27-4	Bromodichloromethane	12.	U	12.	U	12.	U	13.	U	13.	U
78-87-5	1,2-Dichloropropane	12.	U	12.	U	12.	U	13.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	12.	U	12.	U	13.	U	13.	U
79-01-6	Trichloroethene	12.	U	12.	U	12.	U	13.	U	13.	U
124-48-1	Dibromochloromethane	12.	U	12.	U	12.	U	13.	U	13.	U
79-00-5	1,1,2-Trichloroethane	12.	U	12.	U	12.	U	13.	U	13.	U
71-43-2	Benzene	12.	U	12.	U	12.	U	13.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	12.	U	12.	U	13.	U	13.	U
75-25-2	Bromoform	12.	U	12.	U	12.	U	13.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	UJ	12.	U	12.	UJ	13.	UJ	13.	U
591-78-6	2-Hexanone	12.	UJ	12.	U	12.	UJ	13.	UJ	13.	U
127-18-4	Tetrachloroethene	12.	UJ	12.	U	12.	U	13.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	UJ	12.	U	12.	U	13.	U	13.	U
108-88-3	Toluene	4.	J	12.	U	12.	U	13.	U	13.	U
108-90-7	Chlorobenzene	12.	UJ	12.	U	12.	U	13.	U	13.	U
100-41-4	Ethylbenzene	12.	UJ	12.	U	12.	U	13.	U	13.	U
100-42-5	Styrene	12.	UJ	12.	U	12.	U	13.	U	13.	U
1330-20-7	Xylene (Total)	12.	UJ	12.	U	12.	U	13.	U	13.	U

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00725, 95.00727, 95.00755, 95.00756, 95.00784, 95.00785, 95.00797, and 95.00798 (Level III Validation)
Case Nº:	FD1341

Sample Identification	Matrix
007E030795	Water
007F030995	Water
007GMW04LF	Water
007GMW04UC	Water
007GMW04UF	Water
007GMW05LS	Water
007GMW06LF	Water
007GMW06LS	Water
007GMW06UC	Water
007GMW06UF	Water
007GMW07LF	Water
007GMW07LS	Water
007GMW07UF	Water
007GMW08LF	Water
007GMW08UC	Water
007GMW09LF	Water
007GMW09UF	Water
007HMW06UC	Water
007GMW05UC	Water
007GMW05UCS	Water
007GMW05UCD	Water

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INTRODUCTION

This data review report covers 21 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form 10), inter-element corrections (Form 11 A & B) and linear range analysis (Form 12) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank (µg/L)	Field, Trip, or Other Blank	Action Level (5 x highest blank) in (ug/L)	Samples Affected
Silver	3.0		-4.9	-4.87		24.5	All
Zinc	5.0		-5.0			25.0	All
Tin	15.0		-15.6			78.0	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (ug/L)	Modified Final Concentration (ug/L)
007GMW04UC	Zn	24.7	24.7U
007GMW04UF	Zn	8B	8U
007GMW05UC	Zn	11.3B	11.3U
007GMW06LF	Zn	11.8B	11.8U
007GMW06UC	Ag	9.6B	9.6U
	Zn	7.2B	7.2U
007HMW06UC	Zn	5.8B	5.8U
007GMW06UF	Zn	12.6B	12.6U
007GMW07LF	Zn	13.8B	13.8U
007GMW07UF	Zn	8.4B	8.4U
007GMW08UC	Zn	10.3B	10.3U
007GMW09UF	Zn	6.3B	6.3U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125%.

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within ±20.0% except for the following:

Sample	Element	%RSD	QC Limit	Flag
007GMW08UC	Pb	43	≤20%	J(detect)/UJ(non-detect)

The analytical spike recoveries were within QC limit of 85-115% except for the following that resulted in data qualifications:

Sample	Element	%R	QC Limit	Flag
007GMW06UC	Pb	115.5%	85-115	J(detect)/UJ(non-detect)
007GMW06LS	Pb	82.8%	85-115	None (MSA passed)
007GMW07LS	Pb	79.2%	85-115	None (MSA passed)
007GMW04LF	Se	116.5%	85-115	J(detect)/UJ(non-detect)
007GMW06LF	As	119.0%	85-115	J(detect)/UJ(non-detect)
007HMW06UC	As	122.2%	85-115	J(detect)/UJ(non-detect)
007GMW07LS	As	78.0%	85-115	J(detect)/UJ(non-detect)

MSA was performed and the correlation coefficients were within QC limit of >0.995.

MSA was required for the following but were not performed:

Sample	Element	Flag
007GMW04LF	Se	J(detect)/UJ(non-detect)
007GMW06LF	As	J(detect)/UJ(non-detect)
007HMW06UC	As	J(detect)/UJ(non-detect)
007GMW07LS	As	J(detect)/UJ(non-detect)
007GMW06UC	Pb	J(detect)/UJ(non-detect)

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

No raw data were reviewed.

XI. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (ug/L)		RPD (QC Limit)	Flag
	007GMW06UC	007HMW06UC		
Lead	2.2B	2.0U	NA	J(detect)/UJ(non-detect)

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1341

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1341	007GMW04UC 007GMW04UF 007GMW05UC 007GMW06LF 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LF 007GMW07UF 007GMW08UC 007GMW09UF	Zn	U	Blank Contamination
FD1341	007GMW06UC	Ag	U	Blank Contamination
FD1341	007GMW04LF	Se	J(detect)/UJ(non-detect)	Analytical Spike %R
FD1341	007GMW06LF 007HMW06UC 007GMW07LS	As As As	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Analytical Spike %R
FD1341	007GMW06UC	Pb	J(detect)/UJ(non-detect)	Analytical Spike %R
FD1341	007GMW08UC	Pb	J(detect)/UJ(non-detect)	Duplicate Injection %RSD
FD1341	007GMW06UC	Pb	J	Field Duplicate RPD
FD1341	007HMW06UC	Pb	UJ	Field Duplicate RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00725, 95.00727, 95.00755, 95.00756, 95.00784, 95.00785, 95.00797, and 95.798 (Level III Validation)
Case Nº:	FD1341

Sample Identification	Matrix
007E030795	Water
007F030995	Water
007GMW04LF	Water
007GMW04UC	Water
007GMW04UF	Water
007GMW05LS	Water
007GMW05UC	Water
007GMW06LF	Water
007GMW06LS	Water
007GMW06UC	Water
007GMW06UF	Water
007GMW07LF	Water
007GMW07LS	Water
007GMW07UF	Water
007GMW08LF	Water
007GMW08UC	Water
007GMW09LF	Water
007GMW09UF	Water
007HMW06UC	Water
007T030795	Water
007T030895	Water
007T030995	Water
007T031095	Water
007GMW05UCMS	Water
007GMW05UCMSD	Water
007GMW07LSMS	Water
007GMW07LSMSD	Water

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INTRODUCTION

This data review report covers 27 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements.

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Samples Affected	Flag
03/14/95 10:54	HP5970K	Chloroethane	-37.6 (±25.0)	007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC	J(detect)/UJ(non-detect)
03/15/95 10:27	HP5970K	2-Butanone Chloroethane	25.2 (±25.0) -31.9 (±25.0)	007GMW04LF	J(detect)/UJ(non-detect)
03/18/95 12:24	HP5970K	Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	-46.4 (±25.0) 26.1 (±25.0) 28.0 (±25.0) 26.2 (±25.0)	007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/18/95 11:09	HP5970K	Dibromochloromethane Bromoform	25.5 (±25.0) 25.7 (±25.0)	007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (ug/L)	Action Level (ug/L) 10x	Samples Affected	Reported Conc.	Modified Conc.
03/14/95	007T030795	Methylene Chloride	2J	20	007GMW04LF	1J	10U

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

2 sets of matrix spike (MS) and matrix spike duplicate (MSD) were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Compound	MS %R (Limit)	MSD %R (Limit)	RPD (Limit)	Flag
007GMW07LS	Trichloroethene	137 (71-120%)	122 (71-120%)		J(detect)/None(non-detect)
	Benzene	137 (76-127%)	128 (76-127%)		
	Toluene	148 (76-125%)	130 (76-125%)		
	Chlorobenzene	139 (75-130%)			

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XVI. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1341

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1341	007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC	Chloroethane	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1341	007GMW04LF	2-Butanone Chloroethane	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1341	007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS	Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1341	007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	Dibromochloromethane Bromoform	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1341	007GMW04LF	Methylene Chloride	10U	Blank Contamination
FD1341	007GMW07LS	Trichloroethene Benzene Toluene Chlorobenzene	J(detect)/None(non-detect)	MS/MSD %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters: SEMIVOLATILE

Project NAS Millington 0094/09000

Client: Ensafe/Allen & Hoshall

Laboratory: NET Atlantic, Inc.
Cambridge Division

NET Job №: 95.00725, 95.00727, 95.00755, 95.00756, 95.00784, 95.00785, 95.00797, and 95.00798 (Level III Validation)

Case №: FD1341

Sample Identification	Matrix
007E030795	Water
007F030995	Water
007GMW04LF	Water
007GMW04LFRE	Water
007GMW04UC	Water
007GMW04UF	Water
007GMW05LS	Water
007GMW05LSRE	Water
007GMW05UC	Water
007GMW06LF	Water
007GMW06LS	Water
007GMW06UC	Water
007GMW06UF	Water
007GMW06UFRE	Water
007GMW07LF	Water
007GMW07LS	Water
007GMW07UF	Water
007GMW07UFRE	Water
007GMW08LF	Water
007GMW08UC	Water
007GMW09LF	Water
007GMW09UF	Water
007GMW09UFRE	Water
007HMW06UC	Water
007GMW05UCMS	Water
007GMW05UCMD	Water
2BGGMW02LFMS	Water
2BGGMW02LFMSD	Water

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INTRODUCTION

This data review report covers 28 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Holding Time/ QC Limit(days)	Flag
007GMW04LFRE	Water	23 (7)	J(detect)/UJ(non-detect)
007GMW05LSRE	Water	24 (7)	J(detect)/UJ(non-detect)
007GMW06UFRE	Water	20 (7)	J(detect)/UJ(non-detect)
007GMW07UFRE	Water	25 (7)	J(detect)/UJ(non-detect)
007GMW09UFRE	Water	24 (7)	J(detect)/UJ(non-detect)

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/21/95 09:13	HP5970F	Hexachlorocyclopentadiene	43.7 (30.0)	007GMW04UC 007GMW04UF 007GMW05LS 007GMW06LF 007GMW06LS 007GMW06UC 007GMW06UF 007GMW07LF 007GMW07LS 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF 007HMW06UC 007GMW04LFRE 007GMW06UFRE 007GMW05LSRE 007GMW07UFRE 007GMW09UFRE	J(detect)/UJ(non-detect)
02/08/95 10:28	HP5970F	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N-Nitrosodiphenylamine bis(2-Ethylhexyl)phthalate	38.8 (30.0) 30.2 (30.0) 40.3 (30.0) 32.5 (30.0) 31.5 (30.0)	007GMW04LF 007GMW05UC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
03/23/95 13:37	HP5970F	Hexachlorocyclopentadiene 4-Nitrophenol Benzo(k)Fluoranthene	33.1 (25.0) 35.3 (25.0) -29.7 (25.0)	007GMW04UC 007GMW05LS 007GMW06LF 007GMW06LS 007GMW06UC 007GMW06UF 007GMW04UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/24/95 13:34	HP5970F	Hexachlorocyclopentadien 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-Methylphenol 3,3-Dichlorobenzidine Benzo(k)Fluoranthene	43.8 (25.0) 70.7 (25.0) 30.4 (25.0) 45.4 (25.0) 30.6 (25.0) -36.4 (25.0)	007GMW07LF 007GMW07LS 007HMW06UC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/27/95 13:34	HP5970F	4-Nitrophenol Benzo(k)Fluoranthene	32.8 (25.0) -33.7 (25.0)	007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
04/03/95 14:29	HP5970F	2,2-Oxybis(1-Chloropropane) 2,4-Dinitrophenol 4-Nitrophenol	27.5 (25.0) 45.2 (25.0) 35.8 (25.0)	007GMW04LFRE 007GMW06UFRE 007GMW05LSRE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
04/07/95 14:41	HP5970F	4-Nitrophenol Benzo(k)Fluoranthene	28.0 (25.0) -35.0 (25.0)	007GMW07UFRE 007GMW09UFRE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/23/95 15:11	HP5970J	2,2-Oxybis(1-Chloropropane) 2,4-Dinitrophenol 4-Nitrophenol Pentachlorophenol Hexachlorobutadiene	-33.5 (25.0) 27.1 (25.0) 61.2 (25.0) 37.3 (25.0) 27.0 (25.0)	007GMW04LF 007GMW05UC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (ug/L)	Action Level 10 x (ug/L)	Samples Affected	Reported Concentration (ug/L)	Modified Final Concentration (ug/L)
03/23/95	SBLK030995J	Bis(2-Ethylhexyl)phthalate	1J	10	007GMW04LF 007GMW05UC	3BJ 1BJ	10U 10U

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846.

All surrogate spike recoveries met QC requirements except for the following:

Sample	Surrogate Spike Compound	%R	QC Limit	Compounds Affected	Flag
007GMW04LF	2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	2 3 6	21-110 10-123 33-110	All acid compounds	J(detect)/R(non-detect)
007GMW04LFRE	2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	5 3 12	21-110 10-123 33-110	All acid compounds	J(detect)/R(non-detect)
007GMW04UF	2,4,6-Tribromophenol	127	10-123	None	None (only 1 out)
007GMW05LS	Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	16 17 13 5 6 11	35-114 43-116 33-141 21-110 10-123 33-110	All acid compounds All B/N compounds	J(detect)/R(non-detect) J(detect)/UJ(non-detect)
007GMW06UF	2-Fluorophenol 2,4,6-Tribromophenol	4 12	21-110 33-100	All acid compounds	J(detect)/R(non-detect)
007GMW07UF	2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	2 2 7	21-110 10-123 33-110	All acid compounds	J(detect)/R(non-detect)
007GMW07UFRE	2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	5 8 12	21-110 10-123 33-110	All acid compounds	J(detect)/R(non-detect)
007GMW09LF	2-Fluorophenol 2-Chlorophenol-d4	7 23	21-110 33-110	All acid compounds	J(detect)/R(non-detect)
007GMW09UF	2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	3 8 11	21-110 10-123 33-110	All acid compounds	J(detect)/R(non-detect)

Acid surrogate %Rs for samples 007GMW04LF, 007GMW07UF, and their reanalyzed samples were all out of QC limit. Holding times for 007GMW04LFRE and 007GMW07UFRE were out of QC limit while holding times for 007GMW04LF and 007GMW07UF were within QC limit. Thus, results from 007GMW04LF and 007GMW07UF should be reported.

Acid surrogate %Rs for samples 007GMW05LS, 007GMW09UF, and 007GMW06UF were less than 10%. Thus, all acid compounds were rejected while their reanalyzed samples had holding time out of QC limit only. Thus, results from the reanalyzed samples should be reported.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

2 sets of matrix spike (MS) and matrix spike duplicate (MSD) were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1341

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1341	007GMW04LFRE 007GMW05LSRE 007GMW06UFRE 007GMW07UFRE 007GMW09UFRE	All compounds All compounds All compounds All compounds All compounds	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Holding Time Holding Time Holding Time Holding Time Holding Time
FD1341	007GMW04UC 007GMW04UF 007GMW05LS 007GMW06LF 007GMW06LS 007GMW06UC 007GMW06UF 007GMW07LF 007GMW07LS 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF 007HMW06UC 007GMW04LFRE 007GMW06UFRE 007GMW05LSRE 007GMW07UFRE 007GMW09UFRE	Hexachlorocyclopentadiene	J(detect)/UJ(non-detect)	IC %RSD
FD1341	007GMW04LF 007GMW05UC	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol N-Nitrosodiphenylamine bis-(2-Ethylhexyl)phthalate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	IC %RSD
FD1341	007GMW04UC 007GMW05LS 007GMW06LF 007GMW06LS 007GMW06UC 007GMW06UC 007GMW04UF	Hexachlorocyclopentadiene 4-Nitrophenol Benzo(k)Fluoranthene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW07LF 007GMW07LS 007HMW06UC	Hexachlorocyclopentadiene 2,4-Dinitrophenol 4-Nitrophenol 4,6-Dinitro-2-Methylphenol 3,3'-Dichlorobenzidine Benzo(k)Fluoranthene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	4-Nitrophenol Benzo(k)Fluoranthene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW04LFRE 007GMW06UFRE 007GMW05LSRE	2,2-Oxybis(1-Chloropropane) 2,4-Dinitrophenol 4-Nitrophenol	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW07UFRE 007GMW09UFRE	4-Nitrophenol Benzo(k)Fluoranthene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW04LF 007GMW05UC	2,2-Oxybis(1-Chloropropane) 2,4-Dinitrophenol 4-Nitrophenol Pentachlorophenol Hexachlorobutadiene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW04LF	All acid compounds	J(detect)/R(non-detect)	Surrogate %R
FD1341	007GMW04LFRE	All acid compounds	J(detect)/R(non-detect)	Surrogate %R

SDG N°	Sample ID	Parameter	Flag	Reason
FD1341	007GMW05LS	All acid compounds All base/neutral compounds	J(detect)/R(non-detect) J(detect)/UJ(non-detect)	Surrogate %R
FD1341	007GMW06UF	All acid compounds	J(detect)/R(non-detect)	Surrogate %R
FD1341	007GMW07UF	All acid compounds	J(detect)/R(non-detect)	Surrogate %R
FD1341	007GMW07UFRE	All acid compounds	J(detect)/R(non-detect)	Surrogate %R
FD1341	007GMW09LF	All acid compounds	J(detect)/R(non-detect)	Surrogate %R
FD1341	007GMW09UF	All acid compounds	J(detect)/R(non-detect)	Surrogate %R
FD1341	007GMW04LF 007GMW05UC	Bis-(2-Ethylhexyl)phthalate	10U	Blank contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00725, 95.00727, 95.00797, 95.00798, 95.00784, 95.00785, 95.00755, and 95.00756 (Level III Validation)
Case Nº:	FD1341

Sample Identification	Matrix
007E030795	Water
007F030995	Water
007GMW04LF	Water
007GMW04UC	Water
007GMW04UF	Water
007GMW05LS	Water
007GMW05UC	Water
007GMW06LF	Water
007GMW06LS	Water
007GMW06UC	Water
007GMW06UF	Water
007GMW07LF	Water
007GMW07LS	Water
007GMW07UF	Water
007GMW08LF	Water
007GMW08UC	Water
007GMW09LF	Water
007GMW09UF	Water
007HMW06UC	Water
007GMW05UCMS	Water
007GMW05UCMSD	Water

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INTRODUCTION

This data review report covers 21 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Extraction Holding Time/(QC Limit)	Flag
007GMW09UF	Water	19(7) days	J(detect)/UJ(non-detect)

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit except for the following:

Date/ Time	Standard	Compound	%D Column XT15	%D Column RTX35	QC Limit	Associated Samples	Flag
03/36/95 12:04	INDAM04	Alpha-BHC Gamma-BHC 4,4'DDT	16.18 16.24	19.09	±15.0 ±15.0 ±15.0	007GMW04UF 007GMW05UC 007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/26/95 21:37	INDAM05	Endosulfan I 4,4'DDD 4,4'DDT Methoxychlor	-17.32 -18.64 -18.65	-17.98	±15.0 ±15.0 ±15.0 ±15.0	007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

Date/ Time	Standard	Compound	%D Column XT15	%D Column RTX35	QC Limit	Associated Samples	Flag
03/26/95 22:21	INDBM05	Endrin Aldehyde Endosulfan sulfate	-18.35	-27.76	±15.0 ±15.0	007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/31/95 15:29	INDAM13	Methoxychlor	-17.74		±15.0	007GMW09UF	J(detect)/UJ(non-detect)
03/31/95 17:59	INDBA13	Endrin Aldehyde Endrin Ketone	-21.53 -15.95		±15.0 ±15.0	007GMW09UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. RT windows were all within QC limit.

No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Surrogate Spike Compound	%R Primary Column	%R Secondary Column	Advisory Limit	Compounds Affected	Flag
007GMW04UC	Decachlorobiphenyl		50.0	51-127	None	None (only 1 out)
007GMW06UC	Decachlorobiphenyl	43.0	41.0	51-127	None	None (only 1 out)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Compound	MS %R (Limits)	MSD %R (Limits)	RPD% (Limit)	Flag
007GMW05UC	Aldrin			33 (<30)	J(detect)/UJ(non-detect)
	Gamma-BHC			37 (<30)	J(detect)/UJ(non-detect)
	Alpha-BHC			46 (<30)	J(detect)/UJ(non-detect)
	Beta-BHC			39 (<30)	J(detect)/UJ(non-detect)
	Delta-BHC			47 (<30)	J(detect)/UJ(non-detect)
	4,4'-DDD			37 (<30)	J(detect)/UJ(non-detect)
	4,4'-DDE			37 (<30)	J(detect)/UJ(non-detect)
	4,4'-DDT			46 (<30)	J(detect)/UJ(non-detect)
	Dieldrin			33 (<30)	J(detect)/UJ(non-detect)
	Endosulfan I			34 (<30)	J(detect)/UJ(non-detect)
	Endosulfan II			35 (<30)	J(detect)/UJ(non-detect)
	Endosulfan Sulfate			39 (<30)	J(detect)/UJ(non-detect)
	Endrin			38 (<30)	J(detect)/UJ(non-detect)
	Heptachlor			39 (<30)	J(detect)/UJ(non-detect)
	Heptachlor Epoxide			35 (<30)	J(detect)/UJ(non-detect)
	Methoxychlor			38 (<30)	J(detect)/UJ(non-detect)
	Endrin ketone			36 (<30)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

No laboratory control samples were analyzed for this SDG.

IX. COMPOUND IDENTIFICATION

Form I, the associated raw data, and the identification summary (Form X) were reviewed and all compounds were non-detected.

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1341

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1341	007GMW09UF	All	J(detect)/UJ(non-detect)	Holding Time
FD1341	007GMW04UF 007GMW05UC 007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS	Alpha-BHC Gamma-BHC 4,4-DDT	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF	Endosulfan 1 4,4-DDD 4,4-DDT Methoxychlor Endrin Aldehyde Endosulfan sulfate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW09UF	Methoxychlor Endrin Aldehyde Endrin Ketone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW05UC	Aldrin Gamma-BHC Alpha-BHC Beta-BHC Delta-BHC 4,4-DDD 4,4-DDE 4,4-DDT Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Heptachlor Heptachlor epoxide Methoxychlor Endrin Ketone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	MS/MSD RPD%

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00725, 95.00727, 95.000755, 95.00756, 95.00784, 95.00785, 95.00797, and 95.00798 (Level III Validation)
Case Nº:	FD1341

Sample Identification	Matrix
007E030795	Water
007GMWO4LF	Water
007GMWO4UC	Water
007GMWO4UF	Water
007GMWO5LS	Water
007GMWO5UC	Water
007F030995	Water
007GMWO6LF	Water
007GMWO6LS	Water
007GMWO6UC	Water
007HMWO6UC	Water
007GMWO6UF	Water
007GMWO7LS	Water
007GMWO7LF	Water
007GMWO7UF	Water
007GMWO8LF	Water
007GMWO8UC	Water
007GMWO9LF	Water
007GMWO9UF	Water
007GMW05UCMS	Water
007GMW05UCMSD	Water

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INTRODUCTION

This data review report covers 21 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD (RTX35) Primary Column	QC Limit	Associated Samples	Flag
03/25/95 00:05	RF250	Naled	20.2	±20.0	ALL	J(detect)/UJ(non-detect)
	RF500	Merphos	48.7	±20.0		J(detect)/UJ(non-detect)
	RF1000	Fensulfothion	23.6	±20.0		J(detect)/UJ(non-detect)
	RF2000	Guthion	34.1	±20.0		J(detect)/UJ(non-detect)
	RF4000					

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D Primary Column (RTX35)	QC Limit	Associated Samples	Flag
03/23/95 20:02	8140 STD	Naled	-20.8	±15.0	007GMW04LF	J(detect)/UJ(non-detect)
		Merphos	-16.6	±15.0	007GMW04UC	J(detect)/UJ(non-detect)
					007GMW04UF	
					007GMW05LS	
					007GMW05UC	
03/24/95 13:14	8140 STD	Fensulfothion	28.5	±15.0	007GMW04LF	J(detect)/UJ(non-detect)
					007GMW04UC	
					007GMW04UF	
					007GMW05LS	
					007GMW05UC	
					007GMW06LF	
					007GMW06LS	
					007GMW06UC	
					007HMW06UC	
					007GMW06UF	
					007GMW07LS	
03/25/95 02:34	8140 STD	Merphos	22.9	±15.0	007GMW06LF	J(detect)/UJ(non-detect)
		Fensulfothion	23.9	±15.0	007GMW06LS	J(detect)/UJ(non-detect)
					007GMW06UC	
					007HMW06UC	
					007GMW06UF	
					007GMW07LS	
03/26/95 14:22	8140 STD	Fensulfothion	35.3	±15.0	007GMW07LF	J(detect)/UJ(non-detect)
		Guthion	17.0	±15.0	007GMW07UF	J(detect)/UJ(non-detect)
					007GMW08LF	
					007GMW08UC	
					007GMW09LF	
					007GMW09UF	

Date/ Time	Standard	Compound	%D Primary Column (RTX35)	QC Limit	Associated Samples	Flag
03/27/95 06:15	8140 STD	Mevinphos, Alpha	31.2	±15.0		J(detect)/UJ(non-detect)
		Demeton-S	19.8	±15.0	007GMW07LF	J(detect)/UJ(non-detect)
		Diazinon	15.9	±15.0	007GMW07UF	J(detect)/UJ(non-detect)
		Methyl parathion	22.8	±15.0	007GMW08LF	J(detect)/UJ(non-detect)
		Ronnel	18.0	±15.0	007GMW08UC	J(detect)/UJ(non-detect)
		Fenthion	17.6	±15.0	007GMW09LF	J(detect)/UJ(non-detect)
		Trichloronate	20.4	±15.0	007GMW09UF	J(detect)/UJ(non-detect)
		Fensulfothion	41.3	±15.0		J(detect)/UJ(non-detect)
		Guthion	30.8	±15.0		J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
007GMW05UC	RTX35	Diazinon	19(50-150)		118(15)	J(detect)/UJ(non-detect)
		Chlorpyritos			28(15)	J(detect)/UJ(non-detect)
		Merphos			79(15)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/24/95	NLCS10310A	RTX35	Merphos	275.4 (50-150)		007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC	J(detect)/None(non-detect)

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/24/95	NLCS10315A	RTX35	Naled Merphos	37.9 (50-150) 416.5 (50-150)		007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	J(detect)/UJ(non-detect) J(detect)/None(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XI. FIELD DUPLICATES

1 set of field duplicate was analyzed in this SDG. No target analytes were detected in any of the samples.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG № FD1341

SDG №	Sample ID	Parameter	Flag	Reason
FD1341	ALL	Naled Merphos Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	IC %RSD
FD1341	007GMW04LF 007GMW04UC 007GMW04UF 007GMW05LS 007GMW05UC	Naled Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW04LF 007GMW04UC 007GMW04UF 007GMW05LS 007GMW05UC 007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW04UF 007GMW07LS	Fensulfothion	J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS	Merphos Fensulfothion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	Mevinphos, Alpha Demeton-S Diazinon Methyl parathion Ronnel Fenthion Trichloronate Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1341	007GMW05UC	Diazinon Chlorpyritos Merphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	MS/MSD %R and RPD
FD1341	007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC	Merphos	J(detect)/None(non-detect)	LCS %R
FD134	007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	Naled Merphos	J(detect)/UJ(non-detect) J(detect)/None(non-detect)	LCS %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00725, 95.00727, 95.00755, 95.00756, 92.00784, 95.00785, 95.00797, and95.00798 (Level III Validation)
Case Nº:	FD1341

Sample Identification	Matrix
007E030795	Water
007F030995	Water
007GMW04LF	Water
007GMW04UC	Water
007GMW04UF	Water
007GMW05LS	Water
007GMW05UC	Water
007GMW06LF	Water
007GMW06LS	Water
007GMW06UC	Water
007GMW06UCRE	Water
007GMW06UF	Water
007GMW07LF	Water
007GMW07LS	Water
007GMW07UF	Water
007GMW08LF	Water
007GMW08UC	Water
007GMW09LF	Water
007GMW09UF	Water
007HMW06UC	Water
007GMW05UCMS	Water
007GMW05UCMSD	Water

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INTRODUCTION

This data review report covers 22 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

Sample	Matrix	Out of Limit Holding Time/ QC Limit/(days)	Flag
007GMW06UCRE	Water	18 (7)days	J(detect)/UJ(non-detect)

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD (RTX35)	QC Limit	Associated Samples	Flag
03/21/95 21:15	RF1X RF2X RF4X RF10X RF20X	MCPP	50.7	≤20.0% ≤20.0%	007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC 007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/30/95 10:11	RF1X RF2X RF4X RF10X RF20X	MCPP DINOSEB	34.9 45.8	≤20.0% ≤20.0%	007GMW06UCRE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (RTX35)	QC Limit	Associated Samples	Flag
03/24/95 01:50	RF4X	MCPP MCPA Dichloropro 2,4-D 2,4-DB Dinoseb	-34.3 -20.6 -16.7 -16.9 -17.2 -19.2	±15.0% ±15.0% ±15.0% ±15.0% ±15.0% ±15.0%	007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC 007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF	J(detect)/UJ(non-detect)
03/24/95 10:04	RF4X	MCPP	-25.3	±15.0%	007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	J(detect)/UJ(non-detect)
03/24/95 19:37	RF4X	MCPP MCPA Dichloroprop 2,4-D Silvex 2,4,5-T 2,4,-DB	-57.8 -25.9 -18.9 -20.4 -19.4 -26.4 -16.7	±15.0% ±15.0% ±15.0% ±15.0% ±15.0% ±15.0% ±15.0%	007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	J(detect)/UJ(non-detect)
04/01/95 04:19	RF4X	MCPP MCPA Dinoseb	-30.1 -16.8 -16.1	±15.0% ±15.0% ±15.0%	007GMW06UCRE	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Compound	% R RTX35	%R (Adv. Limit %)	Compounds Affected	Flag
007GMW06UC	DCAA	0% (19-129%)		All	J(detect)/R(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was/were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
007GMW05UC	RTX35 RTX35	Dalapon 2,4-DB			23 (≤20%) 44 (≤20%)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/23/95	HLCS0313A	RTX35	Dicamba MCPP	173.53 (10-150%)	19.20 (10-150%)	007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/24/95	HLCS0315A	RTX35	MCPP	176.78 (10-150%)		007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF	J(detect)/UJ(non-detect)
03/24/95	HLCS0317A	RTX35	MCPP 2,4-D 2,4,5-T	162.96 (10-150%) 157.11 (10-150%) 209.2 (10-150%)		007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike sample was analyzed and recoveries met QC requirements.

X. COMPOUND IDENTIFICATION

No raw data were reviewed.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

1 set of field duplicate was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1341

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1341	007GMW06UCRE	All compounds	J(detect)/UJ(non-detect)	Holding Time Out
FD1341	007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC 007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	MCPP	J(detect)/UJ(non-detect)	IC %RSD
FD1341	007GMW06UCRE	MCPP Dinoseb	J(detect)/UJ(non-detect)	IC %RSD
FD1341	007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC 007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF	MCPP MCPA Dichloroprop 2,4-D 2,4-DB Dinoseb	J(detect)/UJ(non-detect)	CC %D
FD1341	007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	MCPP	J(detect)/UJ(non-detect)	CC %D
FD1341	007GMW07LS 007GMW07LF 007GMW07UF 007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	MCPP MCPA Dichloroprop 2,4-D Silvex 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect)	CC %D
FD1341	007GMW06UCRE	MCPP MCPA Dinoseb	J(detect)/UJ(non-detect)	CC %D
FD1341	007GMW06UC	All compounds	J(detect)/R(non-detect)	Surrogate Spike %R
FD1341	007GMW05UC	Dalapon 2,4-DB	J(detect)/UJ(non-detect)	MS/MSD %RPD

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1341	007GMW04LF 007GMW04UC 007GMW05LS 007GMW04UF 007GMW05UC	Dicamba MCPP	J(detect)/UJ(non-detect)	LCS %R
FD1341	007GMW06LF 007GMW06LS 007GMW06UC 007HMW06UC 007GMW06UF 007GMW07LS 007GMW07LF 007GMW07UF	MCPP	J(detect)/UJ(non-detect)	LCS %R
FD1341	007GMW08LF 007GMW08UC 007GMW09LF 007GMW09UF	MCPP 2,4-D 2,4,5-T	J(detect)/UJ(non-detect)	LCS %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters: TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1

Project: NAS Millington 0094/09000

Client: Ensafe/Allen & Hoshall

Laboratory: NET Atlantic, Inc.
Cambridge Division

NET Job Nº: 95.00725, 95.00727, 95.00755, 95.00756, 9500784, 95.00785, 95.00797, and 95.00798 (Level III Validation)

Case Nº: FD1341

Sample Identification	Matrix
007E030795	Water
007GMW04LF	Water
007GMW04UC	Water
007GMW05LS	Water
007GMW04UF	Water
007GMW05UC	Water
007GMW06LF	Water
007GMW06LS	Water
007GMW06UC	Water
007HMW06UC	Water
007GMW06UF	Water
007GMW07LS	Water
007GMW07LF	Water
007GMW07UF	Water
007GMW08LF	Water
007GMW08UC	Water
007GMW09LF	Water
007GMW09UF	Water
007F030995	Water
007GMW05UCMS	Water
007GMW05UCMSD	Water

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 21 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Not applicable because all analyses were run at the same day with the initial calibration.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s) that resulted in data qualifications.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was/were analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

1 set of field duplicates was/were analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Field QC samples were used to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1341

No data were qualified for this SDG.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 HERB						
SAMPLE ID ------->	007-G-MW04-LF	007-G-MW04-UC	007-G-MW04-UF	007-G-MW05-LS	007-G-MW05-UC	007-G-MW06-LF
ORIGINAL ID ----->	007GMW04LF	007GMW04UC	007GMW04UF	007GMW05LS	007GMW05UC	007GMW06LF
LAB SAMPLE ID --->	119460	119461	119530	119462	119531	119609
SAMPLE DATE ----->	03/07/95	03/06/95	03/08/95	03/06/95	03/08/95	03/09/95
DATE EXTRACTED -->	03/22/95	03/22/95	03/22/95	03/22/95	03/22/95	03/22/95
DATE ANALYZED --->	03/23/95	03/23/95	03/23/95	03/23/95	03/23/95	03/24/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A

CAS #	Parameter												
94-82-6	2,4-DB	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ
88-85-7	Dinoseb	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ
93-76-5	2,4,5-T	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
93-72-1	2,4,5-TP (Silvex)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
75-99-0	Dalapon	1.1	U	1.1	U	1.1	U	1.1	U	1.1	UJ	1.1	U
1918-00-9	Dicamba	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	U
120-36-5	Dichlorprop	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ
94-74-6	MCPA	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
93-65-2	MCPP	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
94-75-7	2,4-D	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 HERB						
SAMPLE ID ------->	007-G-MW06-LS	007-H-MW06-UC	007-G-MW06-UCRE	007-G-MW06-UF	007-G-MW07-LF	007-G-MW07-LS
ORIGINAL ID ----->	007GMW06LS	007HMW06UC	007GMW06UCRE	007GMW06UF	007GMW07LF	007GMW07LS
LAB SAMPLE ID --->	119610	119612	119611	119613	119655	119614
SAMPLE DATE ----->	03/09/95	03/08/95	03/09/95	03/09/95	03/09/95	03/09/95
DATE EXTRACTED -->	03/22/95	03/22/95	03/27/95	03/22/95	03/22/95	03/22/95
DATE ANALYZED --->	03/24/95	03/24/95	03/31/95	03/24/95	03/24/95	03/24/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	ug/L A	ug/L A	ug/l A	ug/L A	ug/L A	ug/L A
CAS # Parameter						
94-82-6 2,4-DB	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ
88-85-7 Dinoseb	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 U	0.24 U
93-76-5 2,4,5-T	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ
93-72-1 2,4,5-TP (Silvex)	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ
75-99-0 Dalapon	1.1 U	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U
1918-00-9 Dicamba	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
120-36-5 Dichlorprop	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ
94-74-6 MCPA	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ
93-65-2 MCPP	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ
94-75-7 2,4-D	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 HERB											
	SAMPLE ID ------->	007-G-MW07-UF		007-G-MW08-LF		007-G-MW08-UC		007-G-MW09-LF		007-G-MW09-UF	
	ORIGINAL ID ----->	007GMW07UF		007GMW08LF		007GMW08UC		007GMW09LF		007GMW09UF	
	LAB SAMPLE ID --->	119656		119657		119658		119659		119660	
	SAMPLE DATE ----->	03/09/95		03/10/95		03/10/95		03/10/95		03/10/95	
	DATE EXTRACTED -->	03/22/95		03/22/95		03/22/95		03/22/95		03/22/95	
	DATE ANALYZED --->	03/24/95		03/24/95		03/24/95		03/24/95		03/24/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter										
94-82-6	2,4-DB	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ
88-85-7	Dinoseb	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
93-76-5	2,4,5-T	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ
93-72-1	2,4,5-TP (Silvex)	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ
75-99-0	Dalapon	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1918-00-9	Dicamba	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
120-36-5	Dichlorprop	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ
94-74-6	MCPA	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
93-65-2	MCPP	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
94-75-7	2,4-D	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 METAL													
	SAMPLE ID ------->	007-G-MW04-LF		007-G-MW04-UC		007-G-MW04-UF		007-G-MW05-LS		007-G-MW05-UC		007-G-MW06-LF	
	ORIGINAL ID ----->	007GMW04LF		007GMW04UC		007GMW04UF		007GMW05LS		007GMW05UC		007GMW06LF	
	LAB SAMPLE ID --->	7-119465S		7-119466S		6-119532S		7-119467S		6-119533S		5-119616S	
	SAMPLE DATE ----->	03/07/95		03/06/95		03/08/95		03/06/95		03/08/95		03/09/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
SB	Antimony	40.	U	40.	U	40.	U	40.	U	40.	U	40.	U
AS	Arsenic	2.	U	2.	U	2.	U	2.	U	2.	U	2.	UJ
BA	Barium	130.	J	89.6	J	20.7	J	160.	J	74.8	J	122.	J
BE	Beryllium	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
CD	Cadmium	3.	U	4.6	J	3.	U	3.	J	3.	U	3.	U
CR	Chromium	13.1		73.8		6.	J	23.1		5.	U	5.	U
CO	Cobalt	5.8	J	5.3	J	5.	U	7.2	J	5.	U	6.6	J
CU	Copper	17.4	J	8.6	J	5.	U	20.8	J	5.	U	5.	U
PB	Lead	7.6		6.8		2.	J	8.6		2.	U	2.	J
HG	Mercury	0.2	U	0.26		0.2	U	0.2	U	0.27		0.2	U
NI	Nickel	15.	U	59.3		15.	U	18.	J	15.	U	15.	U
SE	Selenium	2.	UJ	2.	U	2.	U	2.	U	2.	U	2.	U
AG	Silver	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
TL	Thallium	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
V	Vanadium	4.	U	7.7	J	4.	U	15.2	J	4.	U	4.	U
ZN	Zinc	367.		24.7	U	8.	U	46.		11.3	U	11.8	U
SN	Tin	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		NR		NR		NR	
FE	Iron	NR		NR		NR		NR		NR		NR	
MG	Magnesium	NR		NR		NR		NR		NR		NR	
MN	Manganese	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 METAL	SAMPLE ID ------->	007-G-MW06-LS		007-G-MW06-UC		007-H-MW06-UC		007-G-MW06-UF		007-G-MW07-LF		007-G-MW07-LS	
	ORIGINAL ID ----->	007GMW06LS		007GMW06UC		007HMW06UC		007GMW06UF		007GMW07LF		007GMW07LS	
	LAB SAMPLE ID --->	5-119617S		5-119618S		5-119619S		5-119620S		8-119661S		5-119621S	
	SAMPLE DATE ----->	03/09/95		03/08/95		03/08/95		03/09/95		03/09/95		03/09/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
SB	Antimony	40.	U	40.	U	40.	U	40.	U	40.	U	40.	U
AS	Arsenic	5.2	J	2.	U	2.	UJ	2.	U	2.	U	4.4	J
BA	Barium	251.		286.		308.		43.8	J	160.	J	212.	
BE	Beryllium	1.	J	1.	U	1.	U	1.	U	1.	U	1.	U
CD	Cadmium	4.3	J	3.	U	3.	U	3.	U	3.	U	3.	U
CR	Chromium	112.		5.5	J	5.4	J	5.	J	6.9	J	153.	
CO	Cobalt	19.4	J	5.	U	5.	U	5.9	J	18.4	J	13.3	J
CU	Copper	39.2		6.7	J	5.	U	5.	U	5.3	J	26.8	
PB	Lead	21.		2.2	J	2.	UJ	2.	U	2.	U	16.4	
HG	Mercury	0.2	U	0.2	U	0.2	U	0.22		0.28		0.23	
NI	Nickel	95.7		15.	U	15.	U	15.	U	15.	U	124.	
SE	Selenium	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
AG	Silver	3.	U	9.6	U	3.	U	3.	U	3.	U	3.	U
TL	Thallium	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
V	Vanadium	38.6	J	4.	U	4.	U	4.	U	4.	U	26.6	J
ZN	Zinc	107.		7.2	U	5.8	U	12.6	U	13.8	U	64.	
SN	Tin	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		NR		NR		NR	
FE	Iron	NR		NR		NR		NR		NR		NR	
MG	Magnesium	NR		NR		NR		NR		NR		NR	
MN	Manganese	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 METAL												
	SAMPLE ID ------->	007-G-MW07-UF		007-G-MW08-LF		007-G-MW08-UC		007-G-MW09-LF		007-G-MW09-UF		
	ORIGINAL ID ----->	007GMW07UF		007GMW08LF		007GMW08UC		007GMW09LF		007GMW09UF		
	LAB SAMPLE ID --->	8-119662S		8-119663S		8-119664S		8-119665S		8-119666S		
	SAMPLE DATE ----->	03/09/95		03/10/95		03/10/95		03/10/95		03/10/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter											
SB	Antimony	40.	U	40.	U	40.	U	40.	U	40.	U	
AS	Arsenic	2.	U	2.	U	2.	U	2.	U	2.	U	
BA	Barium	76.3	J	80.5	J	369.		105.	J	46.5	J	
BE	Beryllium	1.	U	1.	U	1.	U	1.	U	1.	U	
CD	Cadmium	3.	U	3.	U	3.	U	3.	U	3.	U	
CR	Chromium	6.4	J	5.	U	5.	U	5.	U	5.	U	
CO	Cobalt	5.	U	6.1	J	5.	U	6.6	J	7.7	J	
CU	Copper	5.	U	5.	J	8.8	J	5.	U	5.	J	
PB	Lead	2.4	J	2.	U	3.2	J	2.	U	2.	U	
HG	Mercury	0.2		0.2	U	0.2	U	0.2	U	0.2	U	
NI	Nickel	15.	U	15.	U	15.	U	15.	U	15.	U	
SE	Selenium	2.	U	2.	U	2.	U	2.	U	2.	U	
AG	Silver	3.	U	3.	U	3.	U	3.	U	3.	U	
TL	Thallium	2.	U	2.	U	2.	U	2.	U	2.	U	
V	Vanadium	4.	U	4.	U	4.	U	4.	U	4.	U	
ZN	Zinc	8.4	U	65.		10.3	U	5.	U	6.3	U	
SN	Tin	15.	U	15.	U	15.	U	15.	U	15.	U	
AL	Aluminum	NR		NR		NR		NR		NR		
CA	Calcium	NR		NR		NR		NR		NR		
FE	Iron	NR		NR		NR		NR		NR		
MG	Magnesium	NR		NR		NR		NR		NR		
MN	Manganese	NR		NR		NR		NR		NR		
K	Potassium	NR		NR		NR		NR		NR		
NA	Sodium	NR		NR		NR		NR		NR		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 METAL-CN						
SAMPLE ID ------->	007-G-MW04-LF	007-G-MW04-UC	007-G-MW04-UF	007-G-MW05-LS	007-G-MW05-UC	007-G-MW06-LF
ORIGINAL ID ----->	007GMW04LF	007GMW04UC	007GMW04UF	007GMW05LS	007GMW05UC	007GMW06LF
LAB SAMPLE ID --->	119460	119461	119530	119462	119531	119609
SAMPLE DATE ----->	03/07/95	03/06/95	03/08/95	03/06/95	03/08/95	03/09/95
DATE EXTRACTED -->	03/09/95	03/09/95	03/16/95	03/09/95	03/16/95	03/16/95
DATE ANALYZED --->	03/13/95	03/13/95	03/21/95	03/13/95	03/21/95	03/22/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 METAL-CN						
SAMPLE ID ------->	007-G-MW06-LS	007-G-MW06-UC	007-H-MW06-UC	007-G-MW06-UF	007-G-MW07-LF	007-G-MW07-LS
ORIGINAL ID ----->	007GMW06LS	007GMW06UC	007HMW06UC	007GMW06UF	007GMW07LF	007GMW07LS
LAB SAMPLE ID --->	119610	119611	119612	119613	119655	119614
SAMPLE DATE ----->	03/09/95	03/08/95	03/08/95	03/09/95	03/09/95	03/09/95
DATE EXTRACTED -->	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95
DATE ANALYZED --->	03/22/95	03/22/95	03/21/95	03/22/95	03/22/95	03/21/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 METAL-CN						
SAMPLE ID ------->	007-G-MW07-UF	007-G-MW08-LF	007-G-MW08-UC	007-G-MW09-LF	007-G-MW09-UF	
ORIGINAL ID ----->	007GMW07UF	007GMW08LF	007GMW08UC	007GMW09LF	007GMW09UF	
LAB SAMPLE ID --->	119656	119657	119658	119659	119660	
SAMPLE DATE ----->	03/09/95	03/10/95	03/10/95	03/10/95	03/10/95	
DATE EXTRACTED -->	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95	
DATE ANALYZED --->	03/21/95	03/21/95	03/21/95	03/21/95	03/21/95	
MATRIX ---------->	Water	Water	Water	Water	Water	
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 OP PEST													
	SAMPLE ID ------->	007-G-MW04-LF		007-G-MW04-UC		007-G-MW04-UF		007-G-MW05-LS		007-G-MW05-UC		007-G-MW06-LF	
	ORIGINAL ID ----->	007GMW04LF		007GMW04UC		007GMW04UF		007GMW05LS		007GMW05UC		007GMW06LF	
	LAB SAMPLE ID --->	119460		119461		119530		119462		119531		119609	
	SAMPLE DATE ----->	03/07/95		03/06/95		03/08/95		03/06/95		03/08/95		03/09/95	
	DATE EXTRACTED -->	03/22/95		03/22/95		03/22/95		03/22/95		03/22/95		03/22/95	
	DATE ANALYZED --->	03/24/95		03/24/95		03/24/95		03/24/95		03/24/95		03/24/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
35400-43-2	Sulprofos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
2921-88-2	Chloropyrifos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
56-72-4	Coumaphos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
8065-48-3	Demeton,O	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
333-41-5	Diazinon	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
62-73-7	Dichlorvos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
298-04-4	Disulfoton	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
13194-48-4	Ethoprop	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
300-76-5	Naled	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-00-0	Methyl parathion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
298-02-2	Phorate	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
299-84-3	Ronnel	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
34643-46-4	Tokuthion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
327-98-0	Trichloronate	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
126-75-0	Demeton,S	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 OP PEST						
SAMPLE ID ------->	007-G-MW06-LS	007-G-MW06-UC	007-H-MW06-UC	007-G-MW06-UF	007-G-MW07-LF	007-G-MW07-LS
ORIGINAL ID ----->	007GMW06LS	007GMW06UC	007HMW06UC	007GMW06UF	007GMW07LF	007GMW07LS
LAB SAMPLE ID --->	119610	119611	119612	119613	119655	119614
SAMPLE DATE ----->	03/09/95	03/08/95	03/08/95	03/09/95	03/09/95	03/09/95
DATE EXTRACTED -->	03/22/95	03/22/95	03/22/95	03/22/95	03/25/95	03/22/95
DATE ANALYZED --->	03/24/95	03/24/95	03/24/95	03/24/95	03/24/95	03/24/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A
CAS # Parameter						
86-50-0 Guthion	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
35400-43-2 Sulprofos	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2921-88-2 Chloropyrifos	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
56-72-4 Coumaphos	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
8065-48-3 Demeton,O	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
333-41-5 Diazinon	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
62-73-7 Dichlorvos	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
298-04-4 Disulfoton	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
13194-48-4 Ethoprop	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
115-90-2 Fensulfothion	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
55-38-9 Fenthion	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
150-50-5 Merphos	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
7786-34-7 Mevinphos, Alpha	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
300-76-5 Naled	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
298-00-0 Methyl parathion	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
298-02-2 Phorate	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
299-84-3 Ronnel	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
22248-79-9 Stirophos (Tetrachlorovinphos)	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
34643-46-4 Tokuthion	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
327-98-0 Trichloronate	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
126-75-0 Demeton,S	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 OP PEST												
	SAMPLE ID ------->	007-G-MW07-UF		007-G-MW08-LF		007-G-MW08-UC		007-G-MW09-LF		007-G-MW09-UF		
	ORIGINAL ID ----->	007GMW07UF		007GMW08LF		007GMW08UC		007GMW09LF		007GMW09UF		
	LAB SAMPLE ID --->	119656		119657		119658		119659		119660		
	SAMPLE DATE ----->	03/09/95		03/10/95		03/10/95		03/10/95		03/10/95		
	DATE EXTRACTED -->	03/25/95		03/25/95		03/25/95		03/25/95		03/25/95		
	DATE ANALYZED --->	03/24/95		03/24/95		03/24/95		03/24/95		03/24/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	
CAS #	Parameter											
86-50-0	Guthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
35400-43-2	Sulprofos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
2921-88-2	Chloropyrifos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
56-72-4	Coumaphos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
8065-48-3	Demeton,O	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
333-41-5	Diazinon	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
62-73-7	Dichlorvos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
298-04-4	Disulfoton	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
13194-48-4	Ethoprop	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
55-38-9	Fenthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
300-76-5	Naled	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
298-00-0	Methyl parathion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
298-02-2	Phorate	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
299-84-3	Ronnel	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
34643-46-4	Tokuthion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
126-75-0	Demeton,S	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 PEST	SAMPLE ID ------->	007-G-MW04-LF		007-G-MW04-UC		007-G-MW04-UF		007-G-MW05-LS		007-G-MW05-UC		007-G-MW06-LF	
	ORIGINAL ID ----->	007GMW04LF		007GMW04UC		007GMW04UF		007GMW05LS		007GMW05UC		007GMW06LF	
	LAB SAMPLE ID --->	119465		119466		119532		119467		119533		119616	
	SAMPLE DATE ----->	03/07/95		03/06/95		03/08/95		03/06/95		03/08/95		03/09/95	
	DATE EXTRACTED -->	03/09/95		03/09/95		03/13/95		03/09/95		03/13/95		03/14/95	
	DATE ANALYZED --->	03/25/95		03/25/95		03/26/95		03/25/95		03/26/95		03/26/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
319-84-6	alpha-BHC	0.05	U	0.05	U	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	U
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	UJ	0.05	U	0.05	UJ	0.05	UJ
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	U
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	U
959-98-8	Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	0.05	U
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U
72-54-8	4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U
50-29-3	4,4'-DDT	0.1	U	0.1	U	0.1	UJ	0.1	U	0.1	UJ	0.1	UJ
72-43-5	Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UJ	0.5	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	0.1	U
7421-36-3	Endrin aldehyde	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 PEST													
	SAMPLE ID ------->	007-G-MW06-LS		007-G-MW06-UC		007-H-MW06-UC		007-G-MW06-UF		007-G-MW07-LF		007-G-MW07-LS	
	ORIGINAL ID ----->	007GMW06LS		007GMW06UC		007HMW06UC		007GMW06UF		007GMW07LF		007GMW07LS	
	LAB SAMPLE ID --->	119617		119618		119619		119620		119661		119621	
	SAMPLE DATE ----->	03/09/95		03/08/95		03/08/95		03/09/95		03/09/95		03/09/95	
	DATE EXTRACTED -->	03/14/95		03/14/95		03/14/95		03/14/95		03/14/95		03/14/95	
	DATE ANALYZED --->	03/26/95		03/26/95		03/26/95		03/26/95		03/26/95		03/26/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
319-84-6	alpha-BHC	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	U	0.05	UJ
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	U	0.05	UJ
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
959-98-8	Endosulfan I	0.05	U	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-54-8	4,4'-DDD	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
1031-07-8	Endosulfan sulfate	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
50-29-3	4,4'-DDT	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
72-43-5	Methoxychlor	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7421-36-3	Endrin aldehyde	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 PEST												
	SAMPLE ID ------->	007-G-MW07-UF		007-G-MW08-LF		007-G-MW08-UC		007-G-MW09-LF		007-G-MW09-UF		
	ORIGINAL ID ----->	007GMW07UF		007GMW08LF		007GMW08UC		007GMW09LF		007GMW09UF		
	LAB SAMPLE ID --->	119662		119663		119664		119665		119666		
	SAMPLE DATE ----->	03/09/95		03/10/95		03/10/95		03/10/95		03/10/95		
	DATE EXTRACTED -->	03/14/95		03/14/95		03/14/95		03/14/95		03/29/95		
	DATE ANALYZED --->	03/26/95		03/27/95		03/27/95		03/27/95		03/31/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter											
319-84-6	alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
58-89-9	gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
959-98-8	Endosulfan I	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	
72-54-8	4,4'-DDD	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	
1031-07-8	Endosulfan sulfate	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	
50-29-3	4,4'-DDT	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	
72-43-5	Methoxychlor	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	UJ	
7421-36-3	Endrin aldehyde	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	UJ	
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	UJ	
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	UJ	
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	UJ	
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	UJ	
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	UJ	
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	UJ	
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	1.	UJ	
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	1.	UJ	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 SVOA	SAMPLE ID ------->	007-G-MW04-LF		007-G-MW04-UC.		007-G-MW04-UF		007-G-MW05-LSRE		007-G-MW05-UC		007-G-MW06-LF	
	ORIGINAL ID ----->	007GMW04LF		007GMW04UC		007GMW04UF		007GMW05LSRE		007GMW05UC		007GMW06LF	
	LAB SAMPLE ID --->	119465		119466		119532		119467RE		119533		119616	
	SAMPLE DATE ----->	03/07/95		03/06/95		03/08/95				03/08/95		03/09/95	
	DATE EXTRACTED -->	03/09/95		03/09/95		03/12/95		03/30/94		03/12/95		03/15/95	
	DATE ANALYZED --->	03/23/95		03/23/95		03/24/95		04/03/95		03/23/95		03/23/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	UJ	10.	U	10.	U	10.	UJ	10.	UJ	10.	U
87-68-3	Hexachlorobutadiene	10.	UJ	10.	U	10.	U	10.	UJ	10.	UJ	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
88-06-2	2,4,6-Trichlorophenol	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	UR	25.	U	25.	U	25.	UJ	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	UJ	1.	J	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UR	25.	U	25.	U	25.	UJ	25.	UJ	25.	U
100-02-7	4-Nitrophenol	25.	UR	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	UR	25.	U	25.	U	25.	UJ	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	UJ	10.	U	10.	U	10.	UJ	10.	UJ	10.	U
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	UR	25.	U	25.	U	25.	UJ	25.	UJ	25.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 SVOA													
	SAMPLE ID ------->	007-G-MW04-LF		007-G-MW04-UC		007-G-MW04-UF		007-G-MW05-LSRE		007-G-MW05-UC		007-G-MW06-LF	
	ORIGINAL ID ----->	007GMW04LF		007GMW04UC		007GMW04UF		007GMW05LSRE		007GMW05UC		007GMW06LF	
	LAB SAMPLE ID --->	119465		119466		119532		119467RE		119533		119616	
	SAMPLE DATE ----->	03/07/95		03/06/95		03/08/95				03/08/95		03/09/95	
	DATE EXTRACTED -->	03/09/95		03/09/95		03/12/95		03/30/94		03/12/95		03/15/95	
	DATE ANALYZED --->	03/23/95		03/23/95		03/24/95		04/03/95		03/23/95		03/23/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	UJ	3.	J	10.	U	7.	UJ	10.	UJ	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
108-95-2	Phenol	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ	10.	U	10.	U	10.	UJ	10.	UJ	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	UR	10.	U	10.	U	10.	UJ	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 SVOA													
	SAMPLE ID ------->	007-G-MW06-LS		007-G-MW06-UC		007-H-MW06-UC		007-G-MW06-UFRE		007-G-MW07-LF		007-G-MW07-LS	
	ORIGINAL ID ----->	007GMW06LS		007GMW06UC		007HMW06UC		007GMW06UFRE		007GMW07LF		007GMW07LS	
	LAB SAMPLE ID --->	119617		119618		119619		119620		119661		119621	
	SAMPLE DATE ----->	03/09/95		03/08/95		03/08/95		03/09/95		03/09/95		03/09/95	
	DATE EXTRACTED -->	03/15/95		03/15/95		03/15/95		03/29/95		03/15/95		03/15/95	
	DATE ANALYZED --->	03/23/95		03/23/95		03/24/95		04/03/95		03/24/95		03/24/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	ug/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	U	25.	U	25.	UJ	25.	UJ	25.	UJ	25.	UJ
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	UJ	25.	UJ	25.	UJ	25.	UJ
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 SVOA													
	SAMPLE ID ------->	007-G-MW06-LS		007-G-MW06-UC		007-H-MW06-UC		007-G-MW06-UFRE		007-G-MW07-LF		007-G-MW07-LS	
	ORIGINAL ID ----->	007GMW06LS		007GMW06UC		007HMW06UC		007GMW06UFRE		007GMW07LF		007GMW07LS	
	LAB SAMPLE ID --->	119617		119618		119619		119620		119661		119621	
	SAMPLE DATE ----->	03/09/95		03/08/95		03/08/95		03/09/95		03/09/95		03/09/95	
	DATE EXTRACTED -->	03/15/95		03/15/95		03/15/95		03/29/95		03/15/95		03/15/95	
	DATE ANALYZED --->	03/23/95		03/23/95		03/24/95		04/03/95		03/24/95		03/24/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	ug/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ	10.	UJ
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 SVOA	SAMPLE ID ------->	007-G-MW07-UF		007-G-MW08-LF		007-G-MW08-UC		007-G-MW09-LF		007-G-MW09-UFRE	
	ORIGINAL ID ----->	007GMW07UF		007GMW08LF		007GMW08UC		007GMW09LF		007GMW09UFRE	
	LAB SAMPLE ID --->	119662		119663		119664		119665		119666RE	
	SAMPLE DATE ----->	03/09/95		03/10/95		03/10/95		03/10/95		03/10/95	
	DATE EXTRACTED -->	03/15/95		03/15/95		03/15/95		03/15/95		04/03/95	
	DATE ANALYZED --->	03/27/95		03/27/95		03/27/95		03/27/95		04/07/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter										
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	UJ
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	UJ
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	UJ
88-75-5	2-Nitrophenol	10.	UR	10.	U	10.	U	10.	UR	10.	UJ
105-67-9	2,4-Dimethylphenol	10.	UR	10.	U	10.	U	10.	UR	10.	UJ
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	UJ
120-83-2	2,4-Dichlorophenol	10.	UR	10.	U	10.	U	10.	UR	10.	UJ
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	UJ
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	UJ
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	UJ
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	UJ
59-50-7	4-Chloro-3-methylphenol	10.	UR	10.	U	10.	U	10.	UR	10.	UJ
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	UJ
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
88-06-2	2,4,6-Trichlorophenol	10.	UR	10.	U	10.	U	10.	UR	10.	UJ
95-95-4	2,4,5-Trichlorophenol	25.	UR	25.	U	25.	U	25.	UR	25.	UJ
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	UJ
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	UJ
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	UJ
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	UJ
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	UJ
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	UJ
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	UJ
51-28-5	2,4-Dinitrophenol	25.	UR	25.	U	25.	U	25.	UR	25.	UJ
100-02-7	4-Nitrophenol	25.	UR	25.	UJ	25.	UJ	25.	UR	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	UJ
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	UJ
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	UJ
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	UJ
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	UJ
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	25.	UR	25.	U	25.	U	25.	UR	25.	UJ
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	UJ
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	UJ
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	UJ
87-86-5	Pentachlorophenol	25.	UR	25.	U	25.	U	25.	UR	25.	UJ
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 SVOA													
	SAMPLE ID ------->	007-G-MW07-UF		007-G-MW08-LF		007-G-MW08-UC		007-G-MW09-LF		007-G-MW09-UFRE			
	ORIGINAL ID ----->	007GMW07UF		007GMW08LF		007GMW08UC		007GMW09LF		007GMW09UFRE			
	LAB SAMPLE ID --->	119662		119663		119664		119665		119666RE			
	SAMPLE DATE ----->	03/09/95		03/10/95		03/10/95		03/10/95		03/10/95			
	DATE EXTRACTED -->	03/15/95		03/15/95		03/15/95		03/15/95		04/03/95			
	DATE ANALYZED --->	03/27/95		03/27/95		03/27/95		03/27/95		04/07/95			
	MATRIX ---------->	Water		Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	UJ		
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	UJ		
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	UJ		
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	UJ		
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	1.	J	10.	U	10.	U	10.	U	10.	UJ		
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	UJ		
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
207-08-9	Benzo(k)fluoranthene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ		
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
108-95-2	Phenol	10.	UR	10.	U	10.	U	10.	UR	10.	UJ		
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	UJ		
95-57-8	2-Chlorophenol	10.	UR	10.	U	10.	U	10.	UR	10.	UJ		
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	UJ		
95-48-7	2-Methylphenol (o-Cresol)	10.	UR	10.	U	10.	U	10.	UR	10.	UJ		
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	UJ		
106-44-5	4-Methylphenol (p-Cresol)	10.	UR	10.	U	10.	U	10.	UR	10.	UJ		
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	UJ		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 TPH						
SAMPLE ID ------->	007-G-MW04-LF	007-G-MW04-UC	007-G-MW04-UF	007-G-MW05-LS	007-G-MW05-UC	007-G-MW06-LF
ORIGINAL ID ----->	007GMW04LF	007GMW04UC	007GMW04UF	007GMW05LS	007GMW05UC	007GMW06LF
LAB SAMPLE ID --->	119460	119461	119530	119462	119531	119609
SAMPLE DATE ----->	03/07/95	03/06/95	03/08/95	03/06/95	03/08/95	03/09/95
DATE EXTRACTED -->	03/23/95	03/23/95	03/23/95	03/23/95	03/23/95	03/23/95
DATE ANALYZED --->	03/23/95	03/23/95	03/23/95	03/23/95	03/23/95	03/23/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 TPH						
SAMPLE ID ------->	007-G-MW06-LS	007-G-MW06-UC	007-H-MW06-UC	007-G-MW06-UF	007-G-MW07-LF	007-G-MW07-LS
ORIGINAL ID ----->	007GMW06LS	007GMW06UC	007HMW06UC	007GMW06UF	007GMW07LF	007GMW07LS
LAB SAMPLE ID --->	119610	119611	119612	119613	119655	119614
SAMPLE DATE ----->	03/09/95	03/08/95	03/08/95	03/09/95	03/09/95	03/09/95
DATE EXTRACTED -->	03/23/95	03/23/95	03/23/95	03/23/95	03/30/95	03/25/95
DATE ANALYZED --->	03/23/95	03/23/95	03/23/95	03/23/95	03/30/95	03/26/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 TPH						
SAMPLE ID ------->	007-G-MW07-UF	007-G-MW08-LF	007-G-MW08-UC	007-G-MW09-LF	007-G-MW09-UF	
ORIGINAL ID ----->	007GMW07UF	007GMW08LF	007GMW08UC	007GMW09LF	007GMW09UF	
LAB SAMPLE ID --->	119656	119657	119658	119659	119660	
SAMPLE DATE ----->	03/09/95	03/10/95	03/10/95	03/10/95	03/10/95	
DATE EXTRACTED -->	03/30/95	03/30/95	03/30/95	03/30/95	03/30/95	
DATE ANALYZED --->	03/30/95	03/30/95	03/30/95	03/30/95	03/30/95	
MATRIX ---------->	Water	Water	Water	Water	Water	
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 VOA													
	SAMPLE ID ------->	007-G-MW04-LF		007-G-MW04-UC		007-G-MW04-UF		007-G-MW05-LS		007-G-MW05-UC		007-G-MW06-LF	
	ORIGINAL ID ----->	007GMW04LF		007GMW04UC		007GMW04UF		007GMW05LS		007GMW05UC		007GMW06LF	
	LAB SAMPLE ID --->	119465		119466		119532		119467		119533		119616	
	SAMPLE DATE ----->	03/07/95		03/06/95		03/08/95		03/06/95		03/08/95		03/09/95	
	DATE ANALYZED --->	03/15/95		03/14/95		03/14/95		03/14/95		03/14/95		03/18/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	83.		10.	U	30.		20.		49.		5.	J
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	UJ	10.	U	10.	U	10.	U	10.	U	10.	UJ
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	2.	J	10.	U	3.	J	10.	U	10.	U	2.	J
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	UJ
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	UJ
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	1.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1341 VOA	SAMPLE ID ------->	007-G-MW06-LS		007-G-MW06-UC		007-H-MW06-UC		007-G-MW06-UF		007-G-MW07-LF		007-G-MW07-LS	
	ORIGINAL ID ----->	007GMW06LS		007GMW06UC		007HMW06UC		007GMW06UF		007GMW07LF		007GMW07LS	
	LAB SAMPLE ID --->	119617		119618		119619		119620		119661		119621	
	SAMPLE DATE ----->	03/09/95		03/08/95		03/08/95		03/09/95		03/09/95		03/09/95	
	DATE ANALYZED --->	03/18/95		03/18/95		03/18/95		03/18/95		03/18/95		03/18/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	11.		10.	U	10.	U	59.		33.		12.	
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	1.	J	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	1.	J	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	2.	J	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	6.	J	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	UJ	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	UJ	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ
591-78-6	2-Hexanone	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	3.	J	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1341 VOA													
	SAMPLE ID ------->	007-G-MW07-UF		007-G-MW08-LF		007-G-MW08-UC		007-G-MW09-LF		007-G-MW09-UF		
	ORIGINAL ID ----->	007GMW07UF		007GMW08LF		007GMW08UC		007GMW09LF		007GMW09UF		
	LAB SAMPLE ID --->	119662		119663		119664		119665		119666		
	SAMPLE DATE ----->	03/09/95		03/10/95		03/10/95		03/10/95		03/10/95		
	DATE ANALYZED --->	03/18/95		03/18/95		03/18/95		03/18/95		03/18/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter											
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	
74-83-9	Bromomethane	10.	U	10.	U	1.	J	10.	U	1.	J	
75-01-4	Vinyl chloride	2.	J	10.	U	10.	U	10.	U	10.	U	
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	
67-64-1	Acetone	10.	U	10.	U	18.		10.	U	26.		
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	
75-35-4	1,1-Dichloroethene	10.	U	7.	J	10.	U	10.	U	10.	U	
75-34-3	1,1-Dichloroethane	10.	U	4.	J	1.	J	10.	U	1.	J	
540-59-0	1,2-Dichloroethene (total)	10.	U	2.	J	11.		10.	U	10.	U	
67-66-3	Chloroform	10.	U	10.	U	2.	J	10.	U	10.	U	
107-06-2	1,2-Dichloroethane	10.	U	10.	U	1.	J	10.	U	10.	U	
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	
79-01-6	Trichloroethene	10.	U	7.	J	4.	J	10.	U	10.	U	
124-48-1	Dibromochloromethane	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
71-43-2	Benzene	10.	U	10.	U	1.	J	10.	U	10.	U	
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	
75-25-2	Bromoform	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	
127-18-4	Tetrachloroethene	10.	U	10.	U	5.	J	10.	U	10.	U	
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00805, 95.00806, 95.00817, 95.00818, 95.00876, and 95.877 (Level III Validation)
Case Nº:	FD1342

Sample Identification	Matrix
E031495	Water
F031495	Water
007GMW01LF	Water
007GMW01UC	Water
007GMW03LF	Water
007GMW03UC	Water
007GMW05LF	Water
007GMW05UF	Water
007GMW07UC	Water
007GMW08UF	Water
007GMW09LS	Water
007GMW09UC	Water
007HMW03UC	Water
007GMW09UC	Water
007GMW01UF	Water
007GMW01UFS	Water
007GMW02UC	Water
007GMW02UCS	Water
007GMW03UCD	Water

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INTRODUCTION

This data review report covers 19 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form 10), inter-element corrections (Form 11 A & B) and linear range analysis (Form 12) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank (µg/L)	Field, Trip, or Other Blank (µg/L)	Action Level (5 x highest blank) in (µg/L)	Samples Affected
Calcium	20.0			20.89		104.4	All
Chromium	5.0	-6.8				34.0	All
Silver	3.0		3.3			16.5	All
Zinc	5.0				8.5	42.5	007GMW03LF 007GMW07UC 007GMW08UF 007GMW09LS
Tin	15.0		-15.6			78.0	All

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (ug/L)	Modified Final Concentration (ug/L)
007GMW01UF	Cr	14.6	14.6U
007GMW03LF	Ag Zn	3B 8.2B	3U 8.2U
007GMW08UF	Zn	11.5B	11.5U
007GMW09LS	Ag	3B	3U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125%.

Analyte	%R	Associated Samples	Flag
Hg	126 (75-125%)	All	J(detect)/None(non-detect)

Remark: Post digestive/distillation spike was not required for Hg.

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within 20.0%.

The analytical spike recoveries were within QC limit of 85-115% except for the following that resulted in data qualifications:

Sample	Element	%R	QC Limit	Flag
007GMW01UF	Se	116.5	(85-115%)	J(detect)/UJ(non-detect)
007GMW01UF	As	150.0	(85-115%)	J(detect)/UJ(non-detect)
007HMW09UC	Pb	140.8	(85-115%)	J(detect)/UJ(non-detect)
007GMW09LS	Pb	157.2	(85-115%)	J(detect)/UJ(non-detect)

MSA was required for the following but were not performed.

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

X. SAMPLE RESULTS VERIFICATION

No raw data were reviewed.

XI. FIELD DUPLICATES

2 sets of field duplicates were analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (ug/L)		RPD	QC Limit	Flag
	007GMW09UC	007HMW09UC			
Ag	54.5	3U	Non-calculable	30%	J(detect)/UJ(non-detect)
Zn	8.6	17.8	69.7	30%	J(detect)/UJ(non-detect)
Hg	0.22	0.2U	Non-calculable	30%	J(detect)/UJ(non-detect)

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1342

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1342	007GMW01UF	Cr	U	Blank contamination
FD1342	007GMW03LF	Ag Zn	U U	Blank contamination
FD1342	007GMW08UF	Zn	U	Blank contamination
FD1342	007GMW09LS	Ag	U	Blank contamination
FD1342	All	Hg	J(detect)/None(non-detect)	MS %R
FD1342	007GMW09UC 007HMW09UC	Ag Ag	J UJ	Field duplicate RPD Field duplicate RPD
FD1342	007GMW01UF 007GMW01UF 007HMW09UC 007GMW09LS	Se As Pb Pb	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Analytical spike %R
FD1342	007GMW09UC 007HMW09UC	Zn	J	Field duplicate RPD
FD1342	007GMW09UC 007HMW09UC	Hg Hg	J UJ	Field duplicate RPD Field duplicate RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00805, 95.00806, 95.00817, 95.00818, 95.00876, and 95.00877 (Level III Validation)
Case Nº:	FD1342

Sample Identification	Matrix
007E031495	Water
007F031395	Water
007GMW01UC	Water
007GMW01UF	Water
007GMW02UC	Water
007GMW03LF	Water
007GMW03LS	Water
007GMW03UF	Water
007GMW05LF	Water
007GMW05UF	Water
007GMW07UC	Water
007GMW08UF	Water
007GMW08UFRE	Water
007GMW09LS	Water
007GMW09UC	Water
007GMW03UC	Water
007GMW09UC	Water
007T031395	Water
007T031495	Water
007T031595	Water
007GMW01LF	Water
007GMW03UC	Water

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INTRODUCTION

This data review report covers 22 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements.

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
03/19/95 16:51	HP5970K	Chloromethane Vinyl Chloride 4-Methyl-2-pentanone 2-Hexanone	35.6 (±25) 37.7 (±25) 25.8 (±25) 27.3 (±25)	007GMW09UC 007HMW09UC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/21/95 12:03	HP5970K	Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	-39.7 (±25) 25.2 (±25) 28.0 (±25) 30.2 (±25)	007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/23/95 10:26	HP5970K	Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	-31.2 (±25) 28.3 (±25) 25.4 (±25) 26.2 (±25)	007HMW03UC 007GMW01LF 007GMW01UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/22/95 10:57	HP5970L	Chloromethane Vinyl Chloride	-37.5 (±25) -26.0 (±25)	007GMW02UC	J(detect)/UJ(non-detect)
03/23/95 14:49	HP5970L	Chloromethane Vinyl Chloride	-26.7 (±25) -26.7 (±25)	007GMW03LS	J(detect)/UJ(non-detect)
03/28/95 11:20	HP5970L	Acetone	26.1 (±25)	007GMW08UFRE	J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (ug/L)	Action Level (ug/L) 5 x	10 x	Samples Affected	Reported Concentration (ug/L)	Modified Final Concentration (ug/L)
03/21/95	VB1K032195I	Bromomethane Acetone	1J 4J	5	 40	007GMW01UC	2BJ	10U
03/21/95	VB1K032195I	Bromomethane Acetone	1J 4J	5	 40	007GMW03UC	2BJ 22B	10U 22U
03/21/95	VB1K032195I	Bromomethane	1J	5		007GMW05LF	2BJ	10U
03/21/95	VB1K032195I	Bromomethane	1J	5		007GMW05UC	2BJ	10U

The field blank analyses were performed at required frequencies. No contaminants were found in the field blank(s) that resulted in data qualifications.

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements except for the following:

Sample	System monitoring Compound	%R	QC Limit	Compounds Affected	Flag
007GMW08UF	Toluene-d8 1,2-Dichloroethane-d4	113 115	(88-110%) (76-114%)	All	J(detect)/None(non-detect)

Surrogate %Rs were only slightly above QC limits. Non-detects were not affected. For the re-analyzed sample, all results were qualified due to holding time out of QC requirement. Therefore, the results of the original sample should be used.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CROLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit except for the following:

Compound	Concentration (ug/L)		RPD (QC Limit)	Flag
	Sample	Duplicate		
Acetone	007GMW09UC (10U)	007HMW09UC (29)	Non-calculable	J(detect)/UJ(non-detect)

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1342

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1342	007GMW09UC 007HMW09UC	Chloromethane Vinyl Chloride 4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1342	007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS	Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1342	007HMW03UC 007GMW01LF 007GMW01UF	Chloroethane 2-Butanone 4-Methyl-2-pentanone 2-Hexanone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1342	007GMW02UC	Chloromethane Vinyl Chloride	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1342	007GMW03LS	Chloromethane Vinyl Chloride	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1342	007GMW08UFRE	Acetone	J(detect)/UJ(non-detect)	Continuing calibration %D out
FD1342	007GMW01UC 007GMW05LF 007GMW05UF	Bromomethane	10U 10U 10U	Method blank contamination
FD1342	007GMW03UC	Bromomethane Acetone	10U 22U	Method blank contamination
FD1342	007GMW09UC	Acetone	UJ	Field duplicate RPD
FD1342	007HMW09UC	Acetone	J	Field duplicate RPD
FD1342	007GMW08UF	All compounds	J(detect)/None(non-detect)	Surrogate %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00806, 95.00816, and 95.00877 (Level III Validation)
Case Nº:	GD1342

Sample Identification	Matrix
007E031495	Water
007F031395	Water
007GMW01LF	Water
007GMW01UC	Water
007GMW01UF	Water
007GMW02UC	Water
007GMW03LF	Water
007GMW03UC	Water
007GMW03UF	Water
007GMW05LF	Water
007GMW05UF	Water
007GMW07UC	Water
007GMW08UF	Water
007GMW09LS	Water
007GMW09UC	Water
007HMW03UC	Water
007HMW09UC	Water

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INTRODUCTION

This data review report covers 17 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Out of Limit Holding Time/ QC Limit	Flag
007GMW05UF	Water	12 (7 days)	J(detect)/UJ(non-detect)

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date/Time	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/21/95 / 09:13	HP5970F	Hexachlorocyclopentadiene	43.7 (30.0)	All	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
03/27/95 13:34	HP5970F	4-Nitrophenol	32.8 (25.0)	007GMW05LF	J(detect)/UJ(non-detect)
		Benzo(k)fluoranthene	-33.7 (25.0)	007GMW05UF	J(detect)/UJ(non-detect)
03/28/95 14:13	HP5970F	2,4-Dinitrophenol	31.9 (25.0)	007GMW09UC	J(detect)/UJ(non-detect)
		4-Nitrophenol	40.1 (25.0)	007HMW09UC	J(detect)/UJ(non-detect)
		Pentachlorophenol	30.2 (25.0)	007GMW03LF	J(detect)/UJ(non-detect)
		Benzo(k)fluoranthene	-28.2 (25.0)	007GMW03UF	J(detect)/UJ(non-detect)
		Benzo(a)pyrene	-27.6 (25.0)	007GMW07UC	J(detect)/UJ(non-detect)
				007GMW08UC	
				007GMW09LS	
				007GMW01LF	
				007GMW01UC	
				007GMW01UF	
				007GMW02UC	
				007GMW03UC	
				007HMW03UC	

V. BLANKS

The method blank analyses were performed at required frequencies. Contaminants found in the method blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (ug/L)	Action Level (ug/L) 5 x	Samples Affected	Reported Concentration (ug/L)	Modified Final Concentration (ug/L)
03/29/95	SBLK032095F	Phosphoric acid, 2 ethylhex	5J	25	007GMW03UF	5J	5U

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846.

All surrogate spike recoveries met QC requirements except for the following:

Sample	Surrogate Spike Compound	%R	QC Limit	Compounds Affected	Flag
007GMW08UF	2-Fluorophenol	19	21-110	None	None (only 1 acid out)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

2 sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1342

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1342	007GMW05UF	All	J(detect)/UJ(non-detect)	Holding Time
FD1342	All	Hexachlorocyclopentadiene	J(detect)/UJ(non-detect)	IC %RSD
FD1342	007GMW05LF 007GMW05UF	4-Nitrophenol Benzo(k)fluoranthene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW09UC 007HMW09UC 007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007GMW03UC 007HMW03UC	2,4-Dinitrophenol 4-Nitrophenol Pentachlorophenol Benzo(k)fluoranthene Benzo(a)pyrene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW03UF	Phosphoric acid, 2 Ethylhexyl	5U	Blank's TIC contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	ORGANOCHLORINE PESTICIDES/PCBs
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00806, 95.00818, and 95.00877 (Level III Validation)
Case Nº:	FD1342

Sample Identification	Matrix
007E031495	Water
007F031395	Water
007GMW01LF	Water
007GMW01UC	Water
007GMW01UF	Water
007GMW02UC	Water
007GMW03LF	Water
007GMW03UC	Water
007GMW03UF	Water
007GMW05LF	Water
007GMW05UF	Water
007GMW07UC	Water
007GMW08UF	Water
007GMW09LS	Water
007GMW09LSRE	Water
007GMW09UC	Water
007HMW03UC	Water
007HMW09UC	Water
007HMW09UCRE	Water

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INTRODUCTION

This data review report covers 19 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were not met for this SDG, thus the data were qualified as follows:

Sample	Matrix	Out of Limit Extraction Holding Time/QC Limit (days)	Flag
007GMW09LSRE	Water	16 (7)	J(detect)/UJ(non-detect)
007HMW09UCRE	Water	17 (7)	J(detect)/UJ(non-detect)

007GMW09LS and 007HMW09UC were re-extracted due to low surrogate recoveries. Results of the re-extracted samples should be used.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit except for the following:

Date/ Time	Standard	Compound	%D	%D	QC Limit	Associated Samples	Flag
03/26/95 21:37	1NDAM05	Endosulfan I 4,4'DDD Methoxychlor 4,4'-DDT	-17.32 (XT15) -18.64 (XT15) -18.65 (XT15)	-17.98(RTX35)	±15.0 ±15.0 ±15.0 ±15.0	007GMW05LF 007GMW05UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/26/95 22:21	1NDBM05	Endrin Aldehyde Endosulfan Sulfate	-18.35 (XT15)	-27.76(RTX35)	±15.0 ±15.0	007GMW05LF 007GMW05UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
03/27/95 15:41	1NDBM07	Endrin Aldehyde	-17.83 (XT15)		±15.0	007GMW09UC 007HMW09UC 007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS	J(detect)/UJ(non-detect)
04/09/95 9:27	1NDAM22	Methoxychlor	-16.43 (XT15)		±15.0	007HMW09UCRE 007GMW09LSRE	J(detect)/UJ(non-detect)

Date/ Time	Standard	Compound	%D	%D	QC Limit	Associated Samples	Flag
4/09/95 10:10	1NDBM22	Endrin Aldehyde	-16.37 (XT15)		±15.0	007HMW09UCRE	J(detect)/UJ(non-detect)
		Heptachlor Epoxide	-24.27 (XT15)		±15.0	007GMW09LSRE	J(detect)/UJ(non-detect)
		Endrin Ketone	-17.13 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Endosulfan Sulfate		-18.84(RTX35)	±15.0		J(detect)/UJ(non-detect)
04/09/95 18:51	1NDAM23	Gamma-BHC	-23.54 (XT15)		±15.0	007HMW09CURE	J(detect)/UJ(non-detect)
		Alpha-BHC	-23.10 (XT15)		±15.0	007GMW09LSRE	J(detect)/UJ(non-detect)
		4,4'-DDD	-17.51 (XT15)		±15.0		J(detect)/UJ(non-detect)
		4,4'-DDT		-18.48(RTX35)	±15.0		J(detect)/UJ(non-detect)
		Dieldrin	-26.51 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Endosulfan I	-25.72 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Endrin	-23.84 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Heptachlor	-24.82 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Methoxychlor	-34.51 (XT15)		±15.0		J(detect)/UJ(non-detect)
04/09/95 19:35	1NDBM23	Aldrin	-19.66 (XT15)		±15.0	007HMW09UCRE	J(detect)/UJ(non-detect)
		Beta-BHC	-16.62 (XT15)		±15.0	007GMW09LSRE	J(detect)/UJ(non-detect)
		Delta-BHC	-20.05 (XT15)		±15.0		J(detect)/UJ(non-detect)
		4,4'DDE	-24.47 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Endosulfan II	-27.58 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Endosulfan Sulfate		-34.74(RTX35)	±15.0		J(detect)/UJ(non-detect)
		Endrin Aldehyde	-35.66 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Heptachlor Epoxide	-20.95 (XT15)		±15.0		J(detect)/UJ(non-detect)
		G. Chlordane	-22.97 (XT15)		±15.0		J(detect)/UJ(non-detect)
		A. Chlordane	-26.15 (XT15)		±15.0		J(detect)/UJ(non-detect)
		Endrin Ketone	-37.20 (XT15)		±15.0		J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. RT windows were all within QC limit. No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. The blanks were free of contamination.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	Compound	XT15	RTX35	Advisory Limit	Compounds Affected	Flag
007GMW01UC	DCB	49.0	44.0	51-127		None (only 1 out)
007GMW03LF	DCB	43.0	41.0	51-127		
007GMW03UF	TCX	26.0	24.0	31-130	All	J(detect)/UJ(non-detect)
	DCB	24.0	22.0	51-127		
007GMW05LF	DCB	46.0	45.0	51-127	None	None (only 1 out)
007GMW05LF	DCB	43.0	42.0	51-127	None	None (only 1 out)
007GMW07UC	DCB	24.0	23.0	51-127	None	None (only 1 out)
007GMW08UF	DCB	39.0	37.0	51-127	None	None (only 1 out)
007GMW09LS	TCX	24.0	22.0	31-130	All	J(detect)/UJ(non-detect)
	DCB	17.0	16.0	51-127		
007GMW09UC	DCB	38.0	36.0	51-127	None	None (only 1 out)

Sample ID	Compound	XT15	RTX35	Advisory Limit	Compounds Affected	Flag
007HMW09UC	TCX DCB	29.0 42.0	27.0 40.0	31-130 51-127	All	J(detect)/UJ(non-detect)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

No laboratory control samples were reported for this SDG.

IX. COMPOUND IDENTIFICATION

No raw data were reviewed.

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1342

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1342	007GMW09LSRE 007HMW09UCRE	All	J(detect)/UJ(non-detect)	Holding time out of limit
FD1342	007GMW05LF 007GMW05UF	Endosulfan I 4,4'-DDD Methoxychlor 4,4'-DDT Endrin Aldehyde Endosulfan Sulfate	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW09UC 007HMW09UC 007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS	Endrin Aldehyde	J(detect)/UJ(non-detect)	CCV %D
FD1342	007HMW09UCRE 007GMW09LSRE	Methoxychlor Endrin Aldehyde Heptachlor Epoxide Endrin Ketone Endosulfan sulfate Gamma-BHC Alpha-BHC 4,4-DDD 4,4-DDT Dieldrin Endosulfan I Endrin Heptachlor Aldrin Beta-BHC Delta-BHC 4,4'-DDE Endosulfan II G. Chlordane A. Chlordane	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW03UF 007GMW09LS 007HMW09UC	All	J(detect)/UJ(non-detect)	Surrogate %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00805, 95.00817, and 95.00876 (Level III Validation)
Case Nº:	FD1342

Sample Identification	Matrix
007F031395	Water
007GMW05LF	Water
007GMW05UF	Water
007GMW09UC	Water
007HMW09UC	Water
007GMW03LF	Water
007GMW03UF	Water
007E031495	Water
007GMW07UC	Water
007GMW08UF	Water
007GMW09LS	Water
007GMW03UC	Water
007GMW01LF	Water
007GMW01UC	Water
007GMW01UF	Water
007GMW02UC	Water
007HMW03UC	Water

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INTRODUCTION

This data review report covers 17 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
03/21/95 21:15	RF10X RF1X RF20X RF2X RF4X	MCPP	50.7	≤20.0%	All	J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D (QC Limit)	Associated Samples	Flag
03/24/95 22:33	MCPP	-32.7	±15.00	007GMW05LF 007GMW05UF 007GMW09UC 007HMW09UC	J(detect)/UJ(non-detect)
03/25/95 17:47	Dalapon	-16.5	±15.00	007GMW03LF	J(detect)/UJ(non-detect)
	Dicamba	-18.8	±15.00	007GMW03UF	J(detect)/UJ(non-detect)
	MCPP	-69.7	±15.00	007GMW07UC	J(detect)/UJ(non-detect)
	MCPA	-31.4	±15.00	007GMW08UF	J(detect)/UJ(non-detect)
	Dichloroprop	-23.9	±15.00	007GMW09LS	J(detect)/UJ(non-detect)
	2,4-D	-26.3	±15.00	007GMW03UC	J(detect)/UJ(non-detect)
	Silvex	-32.1	±15.00	007GMW01LF	J(detect)/UJ(non-detect)
	2,4,5-T	-43.5	±15.00	007GMW01UC	J(detect)/UJ(non-detect)
	2,4-DB	-46.1	±15.00	007GMW01UF	J(detect)/UJ(non-detect)
	Dinoseb	-32.7	±15.00	007GMW02UC 007HMW03UC	J(detect)/UJ(non-detect)
03/26/95 00:37	MCPP	-49.1	±15.00	007GMW03UC	J(detect)/UJ(non-detect)
	MCPA	-22.4	±15.00	007GMW01LF	J(detect)/UJ(non-detect)
	Dichloroprop	-17.1	±15.00	007GMW01UC	J(detect)/UJ(non-detect)
	2,4-D	-18.9	±15.00	007GMW01UF	J(detect)/UJ(non-detect)
	Silvex	-18.6	±15.00	007GMW02UC	J(detect)/UJ(non-detect)
	2,4,5-T	-27.6	±15.00	007HMW03UC	J(detect)/UJ(non-detect)
	2,4-DB	-25.9	±15.00		

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	Associated Samples	Flag
HLCS0321A	RTX35	2,4,5-T	181.89 (10-150)	007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS 007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	J(detect)/None(non-detect)

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike samples were analyzed and met QC requirements except for the following:

EST	Column	EST Spike	%R (QC Limit)	Associated Samples	Flag
ESTSPK0324	RTX35	2,4-D	193.24 (10-150)	007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS 007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	J(detect)/None(non-detect)

X. COMPOUND IDENTIFICATION

Form 1, and the identification summary (Form 10) were reviewed and all %D requirements were met.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

2 sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1342

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1342	All samples	MCPP	J(detect)/UJ(non-detect)	IC %RSD
FD1342	007GMW05LF 007GMW05UF 007GMW09UC 007HMW09UC	MCPP	J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS 007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	Dalapon Dicamba MCPP MCPA Dichlorprop 2,4-D Silvex 2,4,5-T 2,4-DB Dinoseb	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	MCPP MCPA Dichlorprop 2,4,-D Silvex 2,4,5-T 2,4-DB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS 007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	2,4,5-T	J(detect)/None(non-detect)	LCS %R
FD1342	007GMW03LF 007GMW03UF 007GMW08UF 007GMW09LS 007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC 007GMW07UC	2,4-D	J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect) J(detect)/None(non-detect)	Esterification Spike %R

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	ORGANOPHOSPHORUS PESTICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00805, 95.00817, and 95.00876 (Level III Validation)
Case Nº:	FD1342

Sample Identification	Matrix
007F031395	Water
007GMW05LF	Water
007GMW05UF	Water
007GMW09UC	Water
007HMW09UC	Water
007GMW03LF	Water
007GMW03UF	Water
007E031495	Water
007GMW07UC	Water
007GMW08UF	Water
007GMW09LS	Water
007GMW03UC	Water
007GMW01LF	Water
007GMW01UC	Water
007GMW01UF	Water
007GMW02UC	Water
007HMW03UC	Water
007GMW07UCRE	Water
007GMW09LSRE	Water

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 19 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Samples	Matrix	Extraction Holding Time (QC Limit)days	Flag
007GMW07UCRE	Water	17(7)	J(detect)/UJ(non-detect)
007GMW09LSRE	Water	17(7)	

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD	QC Limit	Associated Samples	Flag
03/23/95 0:05	RF250 RF500 RF1000 RF2000 RF4000	Naled Merphos Fensulfothion Guthion	20.2 48.7 23.6 34.1	±20.0 ±20.0 ±20.0 ±20.0	007GMW05LF 007GMW05UF 007GMW09UC 007HMW09UC 007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS 007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
04/04/95 22:17	RF250 RF500 RF1000 RF2000 RF4000	Mevinphos, Alpha Fensulfothion Guthion	28.3 31.9 26.5	±20.0 ±20.0 ±20.0	007GMW07UCRE 007GMW07LSRE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D Primary Column	QC Limit	Associated Samples	Flag
03/26/95 14:22	8140 STD	Fensulfothion Guthion	35.3 (RTX35) 17.0 (RTX35)	±15.0 ±15.0	007GMW05LF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

Date/ Time	Standard	Compound	%D Primary Column	QC Limit	Associated Samples	Flag
03/27/95 6:15	8140 STD	Mevinphos	31.2 (RTX35)	±15.0	007GMW05LF	J(detect)/UJ(non-detect)
		Demeton-S	19.8 (RTX35)	±15.0	007GMW05UF	J(detect)/UJ(non-detect)
		Diazinon	15.9 (RTX35)	±15.0	007GMW09UC	J(detect)/UJ(non-detect)
		Methyl parathion	22.8 (RTX35)	±15.0	007GHW09UC	J(detect)/UJ(non-detect)
		Ronnel	18.0 (RTX35)	±15.0	007GMW03LF	J(detect)/UJ(non-detect)
		Fenthion	17.6 (RTX35)	±15.0	007GMW03UF	J(detect)/UJ(non-detect)
		Trichloronate	20.4 (RTX35)	±15.0	007GMW07UC	J(detect)/UJ(non-detect)
		Fensulfothion	41.3 (RTX35)	±15.0	007GMW08UF	J(detect)/UJ(non-detect)
		Guthion	30.8 (RTX35)	±15.0	007GMW09LS	J(detect)/UJ(non-detect)
03/27/95 20:47	8140 STD	Dichlorvos	19.2 (RTX35)	±15.0	007GMW05LF	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	34.6 (RTX35)	±15.0	007GMW09UC	J(detect)/UJ(non-detect)
		Demeton, O	19.7 (RTX35)	±15.0	007HMW09UC	J(detect)/UJ(non-detect)
		Ethoprop	21.8 (RTX35)	±15.0	007GMW03LF	J(detect)/UJ(non-detect)
		Demeton-S	23.4 (RTX35)	±15.0	007GMW03UF	J(detect)/UJ(non-detect)
		Diazinon	18.6 (RTX35)	±15.0	007GMW07UC	J(detect)/UJ(non-detect)
		Methyl parathion	25.6 (RTX35)	±15.0	007GMW08UF	J(detect)/UJ(non-detect)
		Ronnel	25.1 (RTX35)	±15.0	007GMW09LS	J(detect)/UJ(non-detect)
		Fenthion	21.1 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Chlorpyrifos	15.5 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Trichloronate	26.2 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Merphos	33.0 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Tokuthion	16.8 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Fensulfothion	39.2 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	17.5 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Guthion	39.3 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Coumaphos	21.6 (RTX35)	±15.0		J(detect)/UJ(non-detect)
03/30/95 16:35	8140 STD	Dichlorvos	-111.5 (RTX35)	±15.0	007GMW03UC	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	-37.9 (RTX35)	±15.0	007GMW01LF	J(detect)/UJ(non-detect)
		Demeton, O	34.6 (RTX35)	±15.0	007GMW01UC	J(detect)/UJ(non-detect)
		Ethoprop	26.1 (RTX35)	±15.0	007GMW01UF	J(detect)/UJ(non-detect)
		Naled	17.7 (RTX35)	±15.0	007GMW02UC	J(detect)/UJ(non-detect)
		Trichloronate	36.3 (RTX35)	±15.0	007HMW03UC	J(detect)/UJ(non-detect)
		Tokuthion	48.3 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Fensulfothion	36.6 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Stirophos	-237.0 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	34.3 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Guthion	46.9 (RTX35)	±15.0		J(detect)/UJ(non-detect)
03/31/95 7:08	8140 STD	Dichlorvos	-166.9 (RTX35)	±15.0	007GMW03UC	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	-109.7 (RTX35)	±15.0	007GMW01LF	J(detect)/UJ(non-detect)
		Demeton, O	29.6 (RTX35)	±15.0	007GMW01UC	J(detect)/UJ(non-detect)
		Ethoprop	20.3 (RTX35)	±15.0	007GMW01UF	J(detect)/UJ(non-detect)
		Naled	-34.9 (RTX35)	±15.0	007GMW02UC	J(detect)/UJ(non-detect)
		Trichloronate	46.4 (RTX35)	±15.0	007HMW03UC	J(detect)/UJ(non-detect)
		Merphos	-18.2 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Tokuthion	49.1 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Stirophos	-54.9 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	47.7 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Guthion	42.6 (RTX35)	±15.0		J(detect)/UJ(non-detect)
04/10/95 9:05	8140 STD	Dichlorvos	24.5 (RTX-5)	±15.0	007GMW09LSRE	J(detect)/UJ(non-detect)
		Ethoprop	-18.3 (RTX-5)	±15.0	007GMW07UCRE	J(detect)/UJ(non-detect)
		Phorate	-16.1 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Disulfoton	-21.0 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Merphos	21.9 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Tokuthion	-28.6 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Fensulfothion	-40.8 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	-29.4 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Guthion	-16.8 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Coumaphos	-117.8 (RTX-5)	±15.0		J(detect)/UJ(non-detect)

Date/ Time	Standard	Compound	%D Primary Column	QC Limit	Associated Samples	Flag
04/11/95 1:17	8140 STD	Demeton, O	-22.3 (RTX-5)	±15.0	007GMW09LSRE	J(detect)/UJ(non-detect)
		Ethoprop	-35.3 (RTX-5)	±15.0	007GMW07UCRE	J(detect)/UJ(non-detect)
		Phorate	-26.9 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Demeton-S	-20.7 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Diazinon	-27.9 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Methyl parathion	-25.0 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Ronnel	-24.3 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Fenthion	-41.1 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Chlorpyritos	-25.8 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Trichloronate	-25.9 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Merphos	37.0 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Tokuthion	-33.8 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Fensulfothion	-25.3 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	-28.0 (RTX-5)	±15.0		J(detect)/UJ(non-detect)
		Coumaphos	-126.7 (RTX-5)	±15.0		J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) were performed at the required frequency and were free of contamination.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits except for the following:

Sample ID	System Monitoring Compound	%R Primary Column	Advisory Limit	Compounds Affected	Flag
007GMW09LS	4-Chloro-3-Nitrobenzotriflouride	0%	8-134	All	J(detect)/UR(non-detect)
007GMW03UC	4-Chloro-3-Nitrobenzotriflouride	137%	8-134	All	J(detect)None(non-detect)

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed for this SDG.

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

Date	LCS Spike	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
03/27/95	NCLS10317A	RTX35	Ethoprop		23.78 (23.79-23.99)	007GMW05LF	J(detect)/UJ(non-detect)
			Phorate		26.16 (26.16-26.36)	007GMW05UF	J(detect)/UJ(non-detect)
			Demeton-S		28.14 (28.15-28.35)	007GMW09UC	J(detect)/UJ(non-detect)
			Disulfoton		30.65 (30.66-30.86)	007HMW09UC	J(detect)/UJ(non-detect)
			Methyl parathion		35.33 (35.37-35.57)	007GMW03LF	J(detect)/UJ(non-detect)
			Ronnel		34.81 (34.83-35.03)	007GMW03UF	J(detect)/UJ(non-detect)
			Trichloronate		37.02 (37.05-37.18)	007GMW07UC	J(detect)/UJ(non-detect)
			Merphos	0.0 (50-150)	0.00 (37.48-37.62)	007GMW08UF	J(detect)/UR(non-detect)
			Tokuthion		43.10 (43.11-43.31)	007GMW09LS	J(detect)/UJ(non-detect)
			Stirophos		43.47 (43.52-43.7)		J(detect)/UJ(non-detect)
03/30/95	NCLS10322A	RTX35	Dichlorvos	223.6 (50-150)		007GMW03UC	J(detect)/None(non-detect)
			Mevinphos, Alpha	225.8 (50-150)		007GMW01LF	J(detect)/None(non-detect)
			Demeton, O	35.7 (50-150)		007GMW01UC	J(detect)/UJ(non-detect)
			Naled		26.41 (26.44-26.64)	007GMW01UF	J(detect)/UJ(non-detect)
			Trichloronate	48.3 (50-150)		007GMW02UC	J(detect)/UJ(non-detect)
			Merphos	533.3 (50-150)		007HMW03UC	J(detect)/UJ(non-detect)
			Stirophos	160.8 (50-150)			J(detect)/None(non-detect)
			Coumaphos		68.09 (66.83-67.86)		J(detect)/None(non-detect)
04/10/95	NCLS10331A	RTX35	Demeton-S		20.89 (20.90-21.1)	007GMW09LSRE	J(detect)/UJ(non-detect)
			Fensulfothion	162.8 (50-150)		007GMW07UCRE	J(detect)/UJ(non-detect)
			Coumaphos	217.6 (50-150)			J(detect)/None(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XI. FIELD DUPLICATES

2 sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

XII. OVERALL ASSESSMENT OF DATA

Surrogate for samples 007GMW09LS and 007GMW03UC were out of limits. Sample 007GMW09LS was re-extracted. Results from the re-extracted sample should be used even though it was extracted out of holding time. The reason for not using the original sample was due to the 0% surrogate recovery.

007GMW03UC was not re-extracted. Re-extraction was not necessary since %R was above the limit and for only 3%. Non-detected results (all results) were not affected.

007GMW07UC was re-extracted. The results from the original samples should be used since the sample was re-extracted out of holding time.

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1342

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1342	007GMW07UCRE 007GMW09LSRE	All All	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Holding time out of limit
FD1342	007GMW05LF 007GMW05UF 007GMW09UC 007HMW09UC 007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS 007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	Naled Merphos Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	IC %RSD
FD1342	007GMW07UCRE 007GMW07LSRE	Mevinphos, Alpha Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	IC %RSD
FD1342	007GMW05LF	Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW05LF 007GMW05UF 007GMW09UC 007GHW09UC 007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF 007GMW09LS	Mevinphos, Alpha Demeton-S Diazinon Methyl parathion Ronnel Fenthion Trichloronate Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW05UF 007GMW09UC 007HMW09UC 007GMW03LF 007GMW03UF 007GMW07UC 007GMW08UF	Dichlorvos Mevinphos, Alpha Demeton, O Ethoprop Demethon-S Diazinon Methyl parathion Ronnel Fenthion Chlorpyritos Trichloronate Merphos Tokuthion Fensulfothion Suprofos Guthion Coumaphos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1342	007GMW03UC 007GMW01LF 007GMW01UC 007GMW01UF 007GMW02UC 007HMW03UC	Dichlorvos Mevinphos, Alpha Demeton, O Ethoprop Naled Trichloronate Tokuthion Fensulfothion Stirophos Sulprofos Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1342	007GMW03UC	Dichlorvos	J(detect)/UJ(non-detect)	CCV %D
	007GMW01LF	Mevinphos, Alpha	J(detect)/UJ(non-detect)	
	007GMW01UC	Demeton, O	J(detect)/UJ(non-detect)	
	007GMW01UF	Ethoprop	J(detect)/UJ(non-detect)	
	007GMW02UC	Naled	J(detect)/UJ(non-detect)	
	007HMW03HC	Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Stirophos	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
FD1342	007GMW09LSRE	Dichlorvos	J(detect)/UJ(non-detect)	CCV %D
	007GMW07UCRE	Ethoprop	J(detect)/UJ(non-detect)	
		Phorate	J(detect)/UJ(non-detect)	
		Disulfoton	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumaphos	J(detect)/UJ(non-detect)	
FD1342	007GMW09LSRE	Demeton, O	J(detect)/UJ(non-detect)	CCV %D
	007GMW07UCRE	Ethoprop	J(detect)/UJ(non-detect)	
		Phorate	J(detect)/UJ(non-detect)	
		Demeton-S	J(detect)/UJ(non-detect)	
		Diazinon	J(detect)/UJ(non-detect)	
		Methyl parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chlorpyritos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Coumaphos	J(detect)/UJ(non-detect)	
FD1342	007GMW09LS	All	J(detect)/UR(non-detect)	Surrogate Spike %R
	007GMW03UC	All	J(detect)/None(non-detect)	Surrogate Spike %R
FD1342	007GMW05LF	Ethoprop	J(detect)/UJ(non-detect)	LCS %R
	007GMW05UF	Phorate	J(detect)/UJ(non-detect)	
	007GMW09UC	Demeton-S	J(detect)/UJ(non-detect)	
	007HMW09UC	Disulfoton	J(detect)/UJ(non-detect)	
	007GMW03LF	Methyl parathion	J(detect)/UJ(non-detect)	
	007GMW03UF	Ronnel	J(detect)/UJ(non-detect)	
	007GMW07UC	Trichloronate	J(detect)/UJ(non-detect)	
	007GMW08UF	Merphos	J(detect)/UR(non-detect)	
	007GMW09LS	Tokuthion	J(detect)/UJ(non-detect)	
		Stirophos	J(detect)/UJ(non-detect)	
FD1342	007GMW03UC	Dichlorvos	J(detect)/None(non-detect)	LCS %R
	007GMW01LF	Mevinphos, Alpha	J(detect)/None(non-detect)	
	007GMW01UC	Demeton, O	J(detect)/UJ(non-detect)	
	007GMW01UF	Naled	J(detect)/UJ(non-detect)	
	007GMW02UC	Trichloronate	J(detect)/UJ(non-detect)	
	007HMW03UC	Merphos	J(detect)/UJ(non-detect)	
		Stirophos	J(detect)/None(non-detect)	
		Coumaphos	J(detect)/None(non-detect)	
FD1342	007GMW09LSRE	Demeton	J(detect)/UJ(non-detect)	LCS %R
	007GMW07UCRE	Fensulfothion	J(detect)/UJ(non-detect)	
		Coumaphos	J(detect)/None(non-detect)	

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00805, 95.00806, 95.00817, 95.00818, 95.00876, and 95.00877 (Level III Validation)
Case Nº:	FD1342

Sample Identification	Matrix
007F031395	Water
007GMW05LF	Water
007GMW05UF	Water
007GMW09UC	Water
007HMW09UC	Water
007GMW03LF	Water
007GMW03UF	Water
007E031495	Water
007GMW07UC	Water
007GMW08UF	Water
007GMW09LS	Water
007GMW03UC	Water
007GMW01LF	Water
007GMW01UC	Water
007GMW01UF	Water
007GMW02UC	Water
007HMW03UC	Water

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INTRODUCTION

This data review report covers 17 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

No continuing calibration was necessary because all sample analyses were done the same day of initial calibration.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s) that resulted in data qualifications.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No matrix spike (MS) and matrix spike duplicate (MSD) were analyzed in this SDG.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. FIELD DUPLICATES

2 sets of field duplicates were analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG № FD1342

No data were qualified for this SDG.

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	GENERAL INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00805, 95.00806, 95.00817, 95.00818, 95.00876, and 95.00877 (Level III Validation)
Case Nº:	FD1342

Sample Identification	Matrix
007GMW03LF	Water
007GMW03UF	Water
007GMW03UC	Water
007GMW03LS	Water
007GMW03LFMS	Water

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INTRODUCTION

This data review report covers the water samples listed on the cover page. The analyses were per EPA Method 335.2, Method 310.1, Method 405.1, Method 410.4, Method 351.2, Method 300.0, Method 365.3, Method 160.2, Method 180.1 in "Method for Chemical Analysis of Water and Wastes," EPA 600/4-79/020, Revised March 1983 and Method Alpha 2340B (CA, Mg).

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibration only applicable to COD, TKN, Nitrate, and Total Phosphorus.

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations only applicable to Nitrate, and Total Phosphorus.

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within $\pm$15.0 percent.

IV. BLANKS

The method blank(s) was/were extracted and performed according to the SW846. The blanks were free of contamination.

No field blank was analyzed.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD only applicable to COD, TKN, Nitrate, and Total Phosphorus.

Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

Not applicable

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. SYSTEM PERFORMANCE

Not applicable.

X. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XI. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

General Inorganic Data Qualification Summary - SDG Nº FD1342

No data were qualified for this SDG.

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 ALKALINITY						
SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-LS	007-G-MW03-UC	007-G-MW03-UF		
ORIGINAL ID ----->	007GMW03LF	007GMW03LS	007GMW03UC	007GMW03UF		
LAB SAMPLE ID --->	119760	119970	119969	119761		
SAMPLE DATE ----->	03/14/95	03/15/95	03/15/95	03/14/95		
DATE ANALYZED --->	03/23/95	03/23/95	03/23/95	03/23/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	ppmCa A	ppmCa A	ppmCa A	ppmCa A		
CAS # Parameter						
9999900-03-9 Alkalinity as CaCO3	94.	300.	130.	340.		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 BOD						
SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-LS	007-G-MW03-UC	007-G-MW03-UF		
ORIGINAL ID ----->	007GMW03LF	007GMW03LS	007GMW03UC	007GMW03UF		
LAB SAMPLE ID --->	119760	119970	119969	119761		
SAMPLE DATE ----->	03/14/95	03/15/95	03/15/95	03/14/95		
DATE ANALYZED --->	03/16/95	03/16/95	03/16/95	03/16/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-8 Biochemical Oxygen Demand (5-day)	4.8 U	16. U	4.8 U	54. U		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 COD						
	SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-UC			
	ORIGINAL ID ----->	007GMW03LF	007GMW03UC			
	LAB SAMPLE ID --->	119760	119969			
	SAMPLE DATE ----->	03/14/95	03/15/95			
	DATE ANALYZED --->	03/27/95	03/27/95			
	MATRIX ---------->	Water	Water			
	UNITS ---------->	mg/L A	mg/L A			
CAS #	Parameter					
9999900-04-0	Chemical Oxygen Demand	15. U	15. U			

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 HERB													
	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LF		007-G-MW03-UC	
	ORIGINAL ID ----->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03UC	
	LAB SAMPLE ID --->	119971		119972		119973		119974		119760		119969	
	SAMPLE DATE ----->	03/15/95		03/15/95		03/15/95		03/15/95		03/14/95		03/15/95	
	DATE EXTRACTED -->	03/24/95		03/24/95		03/24/95		03/24/95		03/24/95		03/24/95	
	DATE ANALYZED --->	03/25/95		03/25/95		03/25/95		03/25/95		03/25/95		03/25/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
94-82-6	2,4-DB	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ
88-85-7	Dinoseb	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ
93-76-5	2,4,5-T	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ
93-72-1	2,4,5-TP (Silvex)	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ
75-99-0	Dalapon	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ
1918-00-9	Dicamba	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ	0.05	UJ
120-36-5	Dichlorprop	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ
94-74-6	MCPA	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
93-65-2	MCPP	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
94-75-7	2,4-D	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ	0.47	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 HERB						
SAMPLE ID ------->	007-H-MW03-UC	007-G-MW03-UF	007-G-MW05-LF	007-G-MW05-UF	007-G-MW07-UC	007-G-MW08-UF
ORIGINAL ID ----->	007HMW03UC	007GMW03UF	007GMW05LF	007GMW05UF	007GMW07UC	007GMW08UF
LAB SAMPLE ID --->	119975	119761	119694	119695	119763	119764
SAMPLE DATE ----->	03/15/95	03/14/95	03/13/95	03/13/95	03/14/95	03/14/95
DATE EXTRACTED -->	03/24/95	03/24/95	03/22/95	03/22/95	03/24/95	03/24/95
DATE ANALYZED --->	03/25/95	03/25/95	03/25/95	03/25/95	03/25/95	03/25/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A
CAS # Parameter						
94-82-6 2,4-DB	0.47 UJ	0.47 UJ	0.47 U	0.47 U	0.47 UJ	0.47 UJ
88-85-7 Dinoseb	0.24 UJ	0.24 UJ	0.24 U	0.24 U	0.24 UJ	0.24 UJ
93-76-5 2,4,5-T	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
93-72-1 2,4,5-TP (Silvex)	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
75-99-0 Dalapon	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ
1918-00-9 Dicamba	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
120-36-5 Dichlorprop	0.47 UJ	0.47 UJ	0.47 U	0.47 U	0.47 UJ	0.47 UJ
94-74-6 MCPA	47. UJ	47. UJ	47. U	47. U	47. UJ	47. UJ
93-65-2 MCPP	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ
94-75-7 2,4-D	0.47 UJ	0.47 UJ	0.47 U	0.47 U	0.47 UJ	0.47 UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 HERB												
	SAMPLE ID ------->	007-G-MW09-LS			007-G-MW09-UC			007-H-MW09-UC					
	ORIGINAL ID ----->	007GMW09LS			007GMW09UC			007HMW09UC					
	LAB SAMPLE ID --->	119765			119696			119697					
	SAMPLE DATE ----->	03/14/95			03/13/95			03/13/95					
	DATE EXTRACTED -->	03/24/95			03/22/95			03/22/95					
	DATE ANALYZED --->	03/25/95			03/25/95			03/25/95					
	MATRIX ---------->	Water			Water			Water					
	UNITS ---------->	ug/L		A	ug/L		A	ug/L		A			
CAS #	Parameter												
94-82-6	2,4-DB	0.47	UJ		0.47	U		0.47	U				
88-85-7	Dinoseb	0.24	UJ		0.24	U		0.24	U				
93-76-5	2,4,5-T	0.05	UJ		0.05	U		0.05	U				
93-72-1	2,4,5-TP (Silvex)	0.05	UJ		0.05	U		0.05	U				
75-99-0	Dalapon	1.1	UJ		1.1	U		1.1	U				
1918-00-9	Dicamba	0.05	UJ		0.05	U		0.05	U				
120-36-5	Dichlorprop	0.47	UJ		0.47	U		0.47	U				
94-74-6	MCPA	47.	UJ		47.	U		47.	U				
93-65-2	MCPP	47.	UJ		47.	UJ		47.	UJ				
94-75-7	2,4-D	0.47	UJ		0.47	U		0.47	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 Hardness							
	SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-UC				
	ORIGINAL ID ----->	007GMW03LF	007GMW03UC				
	LAB SAMPLE ID --->	119760	119969				
	SAMPLE DATE ----->	03/14/95	03/15/95				
	DATE EXTRACTED -->	03/23/95	03/23/95				
	DATE ANALYZED --->	03/29/95	03/29/95				
	MATRIX ---------->	Water	Water				
	UNITS ---------->	mg/L A	mg/L A				
CAS #	Parameter						
9999900-03-3	Hardness as CaCO3	74.3	115.				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 KJELDAHL							
	SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-UC				
	ORIGINAL ID ----->	007GMW03LF	007GMW03UC				
	LAB SAMPLE ID --->	119760	119969				
	SAMPLE DATE ----->	03/14/95	03/15/95				
	DATE EXTRACTED -->	03/24/95	03/24/95				
	DATE ANALYZED --->	03/31/95	03/31/95				
	MATRIX ---------->	Water	Water				
	UNITS ---------->	mg/L A	mg/L A				
CAS #	Parameter						
999-99-9	Kjeldahl Nitrogen-N	0.58	0.5 U				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LF		007-G-MW03-LF	
	ORIGINAL ID ----->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03LF	
	LAB SAMPLE ID --->	7-119976S		7-119977S		7-119978S		R7-119979S		7-119760S		119760	
	ID FROM REPORT -->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03LF	
	SAMPLE DATE ----->											03/14/95	
	DATE EXTRACTED -->											03/23/95	
	DATE ANALYZED --->											03/30/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		ug/L	
CAS #	Parameter	1342	VAL	1342	VAL	1342	VAL	1342	VAL	1342	VAL	1342	VAL
SB	Antimony	40.	U	40.	U	40.	U	40.	U	NR		NR	
AS	Arsenic	2.	U	2.	U	2.	UJ	2.	U	NR		NR	
BA	Barium	76.6	J	230.		54.4	J	117.	J	NR		NR	
BE	Beryllium	1.	U	1.	U	1.	U	1.	U	NR		NR	
CD	Cadmium	3.	U	3.	U	3.	U	3.	U	NR		NR	
CR	Chromium	5.	U	5.	U	14.6	U	5.	U	NR		NR	
CO	Cobalt	10.6	J	5.	U	5.	U	5.	U	NR		NR	
CU	Copper	5.	U	5.	U	5.	U	5.	U	NR		NR	
PB	Lead	2.	U	2.	U	3.9		2.	U	NR		NR	
HG	Mercury	0.21	J	0.2	U	0.2	U	0.2	U	NR		NR	
NI	Nickel	15.	U	15.	U	19.7	J	15.	U	NR		NR	
SE	Selenium	2.	U	2.	U	2.	UJ	2.	U	NR		NR	
AG	Silver	3.	U	3.	U	3.	U	3.	U	NR		NR	
TL	Thallium	2.	U	2.	U	2.	U	2.	U	NR		NR	
V	Vanadium	4.	U	4.	U	7.1	J	4.	U	NR		NR	
ZN	Zinc	5.	U	24.9		56.		5.	U	NR		NR	
SN	Tin	15.	U	15.	U	15.	U	15.	U	NR		NR	
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		NR		16200.		NR	
FE	Iron	NR		NR		NR		NR		NR		4120.	
MG	Magnesium	NR		NR		NR		NR		8220.		NR	
MN	Manganese	NR		NR		NR		NR		NR		469.	
NA	Sodium	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL																	
	SAMPLE ID ------->	007-G-MW03-LF		007-G-MW03-UC		007-G-MW03-UC		007-G-MW03-UC		007-H-MW03-UC		007-G-MW05-LF	
	ORIGINAL ID ----->	007GMW03LF		007GMW03UC		119969		007GMW03UC		007HMW03UC		007GMW05LF	
	LAB SAMPLE ID --->	119767-S		6-119969S		007GMW03UC		119980-S		7-119981S		6-119699S	
	ID FROM REPORT -->	007GMW03LF		007GMW03UC		03/15/95		007GMW03UC		007HMW03UC		007GMW05LF	
	SAMPLE DATE ----->	03/14/95				03/23/95		03/15/95					
	DATE EXTRACTED -->					03/30/95							
	DATE ANALYZED --->	03/30/95				Water		03/30/95					
	MATRIX ---------->	Water		Water		ug/L		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L				UG/L		UG/L		UG/L	
CAS #	Parameter	1342	VAL	1342	VAL	1342	VAL	1342	VAL	1342	VAL	1342	VAL
SB	Antimony	40.	U	NR		NR		40.	U	40.	U	40.	U
AS	Arsenic	2.	U	NR		NR		2.	U	2.	U	2.	U
BA	Barium	86.1	J	NR		NR		69.	J	70.1	J	76.7	J
BE	Beryllium	1.	U	NR		NR		1.	U	1.	U	1.	U
CD	Cadmium	3.	U	NR		NR		3.	U	3.	U	3.	U
CR	Chromium	5.	U	NR		NR		5.	U	5.	U	5.	U
CO	Cobalt	6.5	J	NR		NR		5.	U	5.	U	5.	U
CU	Copper	5.	U	NR		NR		5.	U	5.	U	5.	U
PB	Lead	2.	U	NR		NR		2.1	J	2.7	J	2.	U
HG	Mercury	0.2	U	NR		NR		0.2	U	0.2	U	0.2	J
NI	Nickel	15.	U	NR		NR		15.	U	15.	U	15.	U
SE	Selenium	2.	U	NR		NR		2.	U	2.	U	2.	U
AG	Silver	3.	U	NR		NR		3.	U	3.	U	3.	U
TL	Thallium	2.	U	NR		NR		2.	U	2.	U	2.	U
V	Vanadium	4.	U	NR		NR		4.	U	4.	U	4.	U
ZN	Zinc	8.2	U	NR		NR		5.	U	5.	U	5.	U
SN	Tin	15.	U	NR		NR		15.	U	15.	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		25400.		NR		NR		NR		NR	
FE	Iron	NR		NR		839.		NR		NR		NR	
MG	Magnesium	NR		12500.		NR		NR		NR		NR	
MN	Manganese	NR		NR		42.4		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
	SAMPLE ID ------->	007-G-MW05-UF		007-G-MW07-UC		007-G-MW08-UF		007-G-MW09-LS		007-G-MW09-UC		007-H-MW09-UC	
	ORIGINAL ID ----->	007GMW05UF		007GMW07UC		007GMW08UF		007GMW09LS		007GMW09UC		007HMW09UC	
	LAB SAMPLE ID --->	6-119700S		8-119769S		8-119770S		8-119771S		6-119701S		6-119702S	
	ID FROM REPORT -->	007GMW05UF		007GMW07UC		007GMW08UF		007GMW09LS		007GMW09UC		007HMW09UC	
	SAMPLE DATE ----->												
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	1342	VAL	1342	VAL	1342	VAL	1342	VAL	1342	VAL	1342	VAL
SB	Antimony	40.	U	40.	U	40.	U	40.	U	40.	U	40.	U
AS	Arsenic	2.	U	2.	U	2.	U	2.	U	2.4	J	2.	U
BA	Barium	120.	J	294.		50.1	J	48.1	J	127.	J	121.	J
BE	Beryllium	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
CD	Cadmium	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
CR	Chromium	79.8		5.	U	5.	U	123.		5.	U	5.	U
CO	Cobalt	5.5	J	5.	U	5.	U	7.	J	5.	U	5.	U
CU	Copper	15.1	J	5.	U	5.	U	7.9	J	5.	U	5.	U
PB	Lead	10.2		2.	U	2.	U	3.2	J	4.		3.4	J
HG	Mercury	0.35	J	0.2	U	0.2	U	0.2	U	0.22	J	0.2	UJ
NI	Nickel	59.3		15.	U	15.	U	93.5		18.6	J	15.	U
SE	Selenium	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
AG	Silver	3.	U	3.	U	3.	U	3.	U	54.5	J	3.	UJ
TL	Thallium	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
V	Vanadium	44.8	J	4.	U	4.	U	5.1	J	4.	U	4.	U
ZN	Zinc	28.4		5.	U	11.5	U	117.		8.6	J	17.8	J
SN	Tin	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		NR		NR		NR	
FE	Iron	NR		NR		NR		NR		NR		NR	
MG	Magnesium	NR		NR		NR		NR		NR		NR	
MN	Manganese	NR		NR		NR		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 METAL-CN							
SAMPLE ID ------->	007-G-MW01-LF	007-G-MW01-UC	007-G-MW01-UF	007-G-MW02-UC	007-G-MW03-LF	007-G-MW03-UC
ORIGINAL ID ----->	007GMW01LF	007GMW01UC	007GMW01UF	007GMW02UC	007GMW03LF	007GMW03UC
LAB SAMPLE ID --->	119971	119972	119973	119974	119760	119969
SAMPLE DATE ----->	03/15/95	03/15/95	03/15/95	03/15/95	03/14/95	03/15/95
DATE EXTRACTED -->	03/20/95	03/20/95	03/20/95	03/20/95	03/16/95	03/20/95
DATE ANALYZED --->	03/21/95	03/21/95	03/21/95	03/21/95	03/21/95	03/21/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 METAL-CN							
SAMPLE ID ------->	007-H-MW03-UC	007-G-MW03-UF	007-G-MW05-LF	007-G-MW05-UF	007-G-MW07-UC	007-G-MW08-UF
ORIGINAL ID ----->	007HMW03UC	007GMW03UF	007GMW05LF	007GMW05UF	007GMW07UC	007GMW08UF
LAB SAMPLE ID --->	119975	119761	119694	119695	119763	119764
SAMPLE DATE ----->	03/15/95	03/14/95	03/13/95	03/13/95	03/14/95	03/14/95
DATE EXTRACTED -->	03/20/95	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95
DATE ANALYZED --->	03/21/95	03/21/95	03/21/95	03/21/95	03/21/95	03/21/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 METAL-CN						
SAMPLE ID ------->	007-G-MW09-LS	007-G-MW09-UC	007-H-MW09-UC			
ORIGINAL ID ----->	007GMW09LS	007GMW09UC	007HMW09UC			
LAB SAMPLE ID --->	119765	119696	119697			
SAMPLE DATE ----->	03/14/95	03/13/95	03/13/95			
DATE EXTRACTED -->	03/16/95	03/16/95	03/16/95			
DATE ANALYZED --->	03/21/95	03/21/95	03/21/95			
MATRIX ---------->	Water	Water	Water			
UNITS ---------->	mg/L A	mg/L A	mg/L A			
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U			

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 NITRATE						
SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-LS	007-G-MW03-UC	007-G-MW03-UF		
ORIGINAL ID ----->	007GMW03LF	007GMW03LS	007GMW03UC	007GMW03UF		
LAB SAMPLE ID --->	119760	119970	119969	119761		
SAMPLE DATE ----->	03/14/95	03/15/95	03/15/95	03/14/95		
DATE ANALYZED --->	03/16/95	03/16/95	03/16/95	03/16/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-4 Nitrate-N	0.68	3.4	0.1 U	3.8		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 OP PEST													
	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LF		007-G-MW03-UC	
	ORIGINAL ID ----->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03UC	
	LAB SAMPLE ID --->	119971		119972		119973		119974		119760		119969	
	SAMPLE DATE ----->	03/15/95		03/15/95		03/15/95		03/15/95		03/14/95		03/15/95	
	DATE EXTRACTED -->	03/30/95		03/30/95		03/30/95		03/30/95		03/25/95		03/30/95	
	DATE ANALYZED --->	03/31/95		03/31/95		03/31/95		03/31/95		03/27/95		03/30/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	5.	UJ	2.5	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
333-41-5	Diazinon	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
62-73-7	Dichlorvos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-04-4	Disulfoton	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UR	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-00-0	Methyl parathion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
298-02-2	Phorate	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
299-84-3	Ronnel	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
126-75-0	Demeton,S	2.5	U	2.5	U	2.5	U	2.5	U	2.5	UJ	2.5	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 OP PEST													
	SAMPLE ID ------->	007-H-MW03-UC		007-G-MW03-UF		007-G-MW05-LF		007-G-MW05-UF		007-G-MW07-UC		007-G-MW08-UF	
	ORIGINAL ID ----->	007HMW03UC		007GMW03UF		007GMW05LF		007GMW05UF		007GMW07UC		007GMW08UF	
	LAB SAMPLE ID --->	119975		119761		119694		119695		119763		119764	
	SAMPLE DATE ----->	03/15/95		03/14/95		03/13/95		03/13/95		03/14/95		03/14/95	
	DATE EXTRACTED -->	03/30/95		03/25/95		03/25/95		03/25/95		03/25/95		03/25/95	
	DATE ANALYZED --->	03/31/95		03/27/95		03/27/95		03/27/95		03/27/95		03/27/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
333-41-5	Diazinon	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
62-73-7	Dichlorvos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-04-4	Disulfoton	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
150-50-5	Merphos	2.5	UJ	2.5	UR	2.5	UR	2.5	UR	2.5	UR	2.5	UR
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-00-0	Methyl parathion	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-02-2	Phorate	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
299-84-3	Ronnel	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
126-75-0	Demeton,S	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 OP PEST													
	SAMPLE ID ------->	007-G-MW09-LSRE			007-G-MW09-UC			007-H-MW09-UC					
	ORIGINAL ID ----->	007GMW09LSRE			007GMW09UC			007HMW09UC					
	LAB SAMPLE ID --->	119765			119696			119697					
	SAMPLE DATE ----->	03/14/95			03/13/95			03/13/95					
	DATE EXTRACTED -->	03/31/95			03/25/95			03/25/95					
	DATE ANALYZED --->	04/10/95			03/27/95			03/27/95					
	MATRIX ---------->	Water			Water			Water					
	UNITS ---------->	ug/l		A	ug/L		A	ug/L		A			
CAS #	Parameter												
86-50-0	Guthion	5.	UJ		2.5	UJ		2.5	UJ				
35400-43-2	Sulprofos	2.5	UJ		2.5	UJ		2.5	UJ				
2921-88-2	Chloropyrifos	2.5	UJ		2.5	UJ		2.5	UJ				
56-72-4	Coumaphos	2.5	UJ		2.5	UJ		2.5	UJ				
8065-48-3	Demeton,O	2.5	UJ		2.5	UJ		2.5	UJ				
333-41-5	Diazinon	2.5	UJ		2.5	UJ		2.5	UJ				
62-73-7	Dichlorvos	2.5	UJ		2.5	UJ		2.5	UJ				
298-04-4	Disulfoton	2.5	UJ		2.5	UJ		2.5	UJ				
13194-48-4	Ethoprop	2.5	UJ		2.5	UJ		2.5	UJ				
115-90-2	Fensulfothion	2.5	UJ		2.5	UJ		2.5	UJ				
55-38-9	Fenthion	2.5	UJ		2.5	UJ		2.5	UJ				
150-50-5	Merphos	2.5	UJ		2.5	UR		2.5	UR				
7786-34-7	Mevinphos, Alpha	2.5	UJ		2.5	UJ		2.5	UJ				
300-76-5	Naled	2.5	UJ		2.5	UJ		2.5	UJ				
298-00-0	Methyl parathion	2.5	UJ		2.5	UJ		2.5	UJ				
298-02-2	Phorate	2.5	UJ		2.5	UJ		2.5	UJ				
299-84-3	Ronnel	2.5	UJ		2.5	UJ		2.5	UJ				
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	UJ		2.5	UJ		2.5	UJ				
34643-46-4	Tokuthion	2.5	UJ		2.5	UJ		2.5	UJ				
327-98-0	Trichloronate	2.5	UJ		2.5	UJ		2.5	UJ				
126-75-0	Demeton,S	2.5	UJ		2.5	UJ		2.5	UJ				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 PEST	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LF		007-G-MW03-UC	
	ORIGINAL ID ----->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03UC	
	LAB SAMPLE ID --->	119976		119977		119978		119979		119767		119980	
	SAMPLE DATE ----->	03/15/95		03/15/95		03/15/95		03/15/95		03/14/95		03/15/95	
	DATE EXTRACTED -->	03/21/95		03/21/95		03/21/95		03/21/95		03/16/95		03/21/95	
	DATE ANALYZED --->	03/29/95		03/29/95		03/29/95		03/29/95		03/27/95		03/29/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
319-84-6	alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
959-98-8	Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
72-54-8	4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
50-29-3	4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
72-43-5	Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U	0.25	U	0.5	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	0.1	U
7421-36-3	Endrin aldehyde	0.1	U	0.1	U	0.1	U	0.1	U	0.05	UJ	0.1	U
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.025	U	0.05	U
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	0.5	U	1.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 PEST						
SAMPLE ID ------->	007-H-MW03-UC	007-G-MW03-UF	007-G-MW05-LF	007-G-MW05-UF	007-G-MW07-UC	007-G-MW08-UF
ORIGINAL ID ----->	007HMW03UC	007GMW03UF	007GMW05LF	007GMW05UF	007GMW07UC	007GMW08UF
LAB SAMPLE ID --->	119981	119768	119699	119700	119769	119770
SAMPLE DATE ----->	03/15/95	03/14/95	03/13/95	03/13/95	03/14/95	03/14/95
DATE EXTRACTED -->	03/21/95	03/16/95	03/16/95	03/16/95	03/16/95	03/16/95
DATE ANALYZED --->	03/29/95	03/27/95	03/27/95	03/27/95	03/27/95	03/27/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A
CAS # Parameter						
319-84-6 alpha-BHC	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
319-85-7 beta-BHC	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
319-86-8 delta-BHC	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
58-89-9 gamma-BHC (Lindane)	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
76-44-8 Heptachlor	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
309-00-2 Aldrin	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
1024-57-3 Heptachlor epoxide	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
959-98-8 Endosulfan I	0.05 U	0.025 UJ	0.025 UJ	0.025 UJ	0.025 U	0.025 U
60-57-1 Dieldrin	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
72-55-9 4,4'-DDE	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
72-20-8 Endrin	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
33213-65-9 Endosulfan II	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
72-54-8 4,4'-DDD	0.1 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U
1031-07-8 Endosulfan sulfate	0.1 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U
50-29-3 4,4'-DDT	0.1 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U
72-43-5 Methoxychlor	0.5 U	0.25 UJ	0.25 UJ	0.25 UJ	0.25 U	0.25 U
53494-70-5 Endrin ketone	0.1 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
7421-36-3 Endrin aldehyde	0.1 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
5103-71-9 alpha-Chlordane	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
5103-74-2 gamma-Chlordane	0.05 U	0.025 UJ	0.025 U	0.025 U	0.025 U	0.025 U
8001-35-2 Toxaphene	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
12674-11-2 Aroclor-1016	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
11104-28-2 Aroclor-1221	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
11141-16-5 Aroclor-1232	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
53469-21-9 Aroclor-1242	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
12672-29-6 Aroclor-1248	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
11097-69-1 Aroclor-1254	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
11096-82-5 Aroclor-1260	1. U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 PEST							
	SAMPLE ID ------->	007-G-MW09-LS	007-G-MW09-UC	007-H-MW09-UC			
	ORIGINAL ID ----->	007GMW09LS	007GMW09UC	007HMW09UC			
	LAB SAMPLE ID --->	119771	119701	119702			
	SAMPLE DATE ----->	03/14/95	03/13/95	03/13/95			
	DATE EXTRACTED -->	03/16/95	03/16/95	03/16/95			
	DATE ANALYZED --->	03/27/95	03/27/95	03/27/95			
	MATRIX ---------->	Water	Water	Water			
	UNITS ---------->	UG/L A	UG/L A	UG/L A			
CAS #	Parameter						
319-84-6	alpha-BHC	0.025 UJ	0.025 U	0.025 UJ			
319-85-7	beta-BHC	0.025 UJ	0.025 U	0.025 UJ			
319-86-8	delta-BHC	0.025 UJ	0.025 U	0.025 UJ			
58-89-9	gamma-BHC (Lindane)	0.025 UJ	0.025 U	0.025 UJ			
76-44-8	Heptachlor	0.025 UJ	0.025 U	0.025 UJ			
309-00-2	Aldrin	0.025 UJ	0.025 U	0.025 UJ			
1024-57-3	Heptachlor epoxide	0.025 UJ	0.025 U	0.025 UJ			
959-98-8	Endosulfan I	0.025 UJ	0.025 U	0.025 UJ			
60-57-1	Dieldrin	0.05 UJ	0.05 U	0.05 UJ			
72-55-9	4,4'-DDE	0.05 UJ	0.05 U	0.05 UJ			
72-20-8	Endrin	0.05 UJ	0.05 U	0.05 UJ			
33213-65-9	Endosulfan II	0.05 UJ	0.05 U	0.05 UJ			
72-54-8	4,4'-DDD	0.05 UJ	0.05 U	0.05 UJ			
1031-07-8	Endosulfan sulfate	0.05 UJ	0.05 U	0.05 UJ			
50-29-3	4,4'-DDT	0.05 UJ	0.05 U	0.05 UJ			
72-43-5	Methoxychlor	0.25 UJ	0.25 U	0.25 UJ			
53494-70-5	Endrin ketone	0.05 UJ	0.05 U	0.05 UJ			
7421-36-3	Endrin aldehyde	0.05 UJ	0.05 UJ	0.05 UJ			
5103-71-9	alpha-Chlordane	0.025 UJ	0.025 U	0.025 UJ			
5103-74-2	gamma-Chlordane	0.025 UJ	0.025 U	0.025 UJ			
8001-35-2	Toxaphene	0.5 UJ	0.5 U	0.5 UJ			
12674-11-2	Aroclor-1016	0.5 UJ	0.5 U	0.5 UJ			
11104-28-2	Aroclor-1221	0.5 UJ	0.5 U	0.5 UJ			
11141-16-5	Aroclor-1232	0.5 UJ	0.5 U	0.5 UJ			
53469-21-9	Aroclor-1242	0.5 UJ	0.5 U	0.5 UJ			
12672-29-6	Aroclor-1248	0.5 UJ	0.5 U	0.5 UJ			
11097-69-1	Aroclor-1254	0.5 UJ	0.5 U	0.5 UJ			
11096-82-5	Aroclor-1260	0.5 UJ	0.5 U	0.5 UJ			

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 SVOA	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LF		007-G-MW03-UC	
	ORIGINAL ID ----->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03UC	
	LAB SAMPLE ID --->	119976		119977		119978		119979		119767		119980	
	SAMPLE DATE ----->	03/15/95		03/15/95		03/15/95		03/15/95		03/14/95		03/15/95	
	DATE EXTRACTED -->	03/20/95		03/20/95		03/20/95		03/20/95		03/20/95		03/20/95	
	DATE ANALYZED --->	03/28/95		03/28/95		03/28/95		03/28/95		03/28/95		03/28/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 SVOA													
	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LF		007-G-MW03-UC	
	ORIGINAL ID ----->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03UC	
	LAB SAMPLE ID --->	119976		119977		119978		119979		119767		119980	
	SAMPLE DATE ----->	03/15/95		03/15/95		03/15/95		03/15/95		03/14/95		03/15/95	
	DATE EXTRACTED -->	03/20/95		03/20/95		03/20/95		03/20/95		03/20/95		03/20/95	
	DATE ANALYZED --->	03/28/95		03/28/95		03/28/95		03/28/95		03/28/95		03/28/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
50-32-8	Benzo(a)pyrene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 SVOA													
	SAMPLE ID ------->	007-H-MW03-UC		007-G-MW03-UF		007-G-MW05-LF		007-G-MW05-UF		007-G-MW07-UC		007-G-MW08-UF	
	ORIGINAL ID ----->	007HMW03UC		007GMW03UF		007GMW05LF		007GMW05UF		007GMW07UC		007GMW08UF	
	LAB SAMPLE ID --->	119981		119768		119699		119700		119769		119770	
	SAMPLE DATE ----->	03/15/95		03/14/95		03/13/95		03/13/95		03/14/95		03/14/95	
	DATE EXTRACTED --->	03/20/95		03/20/95		03/20/95		03/25/95		03/20/95		03/20/95	
	DATE ANALYZED --->	03/29/95		03/28/95		03/27/95		03/27/95		03/28/95		03/28/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UJ	25.	UJ	25.	U	25.	UJ	25.	UJ	25.	UJ
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	U	25.	UJ	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	UJ	25.	UJ	25.	U	25.	UJ	25.	UJ	25.	UJ
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 SVOA													
	SAMPLE ID ------->	007-H-MW03-UC		007-G-MW03-UF		007-G-MW05-LF		007-G-MW05-UF		007-G-MW07-UC		007-G-MW08-UF	
	ORIGINAL ID ----->	007HMW03UC		007GMW03UF		007GMW05LF		007GMW05UF		007GMW07UC		007GMW08UF	
	LAB SAMPLE ID --->	119981		119768		119699		119700		119769		119770	
	SAMPLE DATE ----->	03/15/95		03/14/95		03/13/95		03/13/95		03/14/95		03/14/95	
	DATE EXTRACTED -->	03/20/95		03/20/95		03/20/95		03/25/95		03/20/95		03/20/95	
	DATE ANALYZED --->	03/29/95		03/28/95		03/27/95		03/27/95		03/28/95		03/28/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	5.	J	10.	U	10.	U	10.	UJ	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
50-32-8	Benzo(a)pyrene	10.	UJ	10.	UJ	10.	U	10.	UJ	10.	UJ	10.	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 SVOA											
	SAMPLE ID ------->	007-G-MW09-LS		007-G-MW09-UC		007-H-MW09-UC					
	ORIGINAL ID ----->	007GMW09LS		007GMW09UC		007HMW09UC					
	LAB SAMPLE ID --->	119771		119701		119702					
	SAMPLE DATE ----->	03/14/95		03/13/95		03/13/95					
	DATE EXTRACTED -->	03/20/95		03/20/95		03/20/95					
	DATE ANALYZED --->	03/28/95		03/28/95		03/28/95					
	MATRIX ---------->	Water		Water		Water					
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A				
CAS #	Parameter										
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U				
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U				
78-59-1	Isophorone	10.	U	10.	U	10.	U				
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U				
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U				
91-20-3	Naphthalene	10.	U	10.	U	10.	U				
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U				
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U				
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U				
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ				
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U				
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U				
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U				
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U				
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U				
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U				
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U				
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U				
83-32-9	Acenaphthene	10.	U	10.	U	10.	U				
51-28-5	2,4-Dinitrophenol	25.	UJ	25.	UJ	25.	UJ				
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	UJ				
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U				
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U				
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U				
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U				
86-73-7	Fluorene	10.	U	10.	U	10.	U				
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U				
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	U				
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U				
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U				
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U				
87-86-5	Pentachlorophenol	25.	UJ	25.	UJ	25.	UJ				
85-01-8	Phenanthrene	10.	U	10.	U	10.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 SVOA												
	SAMPLE ID ------->	007-G-MW09-LS			007-G-MW09-UC			007-H-MW09-UC					
	ORIGINAL ID ----->	007GMW09LS			007GMW09UC			007HMW09UC					
	LAB SAMPLE ID --->	119771			119701			119702					
	SAMPLE DATE ----->	03/14/95			03/13/95			03/13/95					
	DATE EXTRACTED -->	03/20/95			03/20/95			03/20/95					
	DATE ANALYZED --->	03/28/95			03/28/95			03/28/95					
	MATRIX ---------->	Water			Water			Water					
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A			
CAS #	Parameter												
120-12-7	Anthracene	10.	U		10.	U		10.	U				
86-74-8	Carbazole	10.	U		10.	U		10.	U				
84-74-2	Di-n-butylphthalate	10.	U		10.	U		10.	U				
206-44-0	Fluoranthene	10.	U		10.	U		10.	U				
129-00-0	Pyrene	10.	U		10.	U		10.	U				
85-68-7	Butylbenzylphthalate	10.	U		10.	U		10.	U				
91-94-1	3,3'-Dichlorobenzidine	10.	U		10.	U		10.	U				
56-55-3	Benzo(a)anthracene	10.	U		10.	U		10.	U				
218-01-9	Chrysene	10.	U		10.	U		10.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U		10.	U		10.	U				
117-84-0	Di-n-octylphthalate	10.	U		10.	U		10.	U				
205-99-2	Benzo(b)fluoranthene	10.	U		10.	U		10.	U				
207-08-9	Benzo(k)fluoranthene	10.	UJ		10.	UJ		10.	UJ				
50-32-8	Benzo(a)pyrene	10.	UJ		10.	UJ		10.	UJ				
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U		10.	U		10.	U				
53-70-3	Dibenzo(a,h)anthracene	10.	U		10.	U		10.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U		10.	U		10.	U				
108-95-2	Phenol	10.	U		10.	U		10.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U		10.	U		10.	U				
95-57-8	2-Chlorophenol	10.	U		10.	U		10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U		10.	U		10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U		10.	U		10.	U				
95-50-1	1,2-Dichlorobenzene	10.	U		10.	U		10.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U		10.	U		10.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U		10.	U		10.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U		10.	U		10.	U				
98-95-3	Nitrobenzene	10.	U		10.	U		10.	U				

*** Validation Complete ***

1342 TOTAL PHOS							
	SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-UC				
	ORIGINAL ID ----->	007GMW03LF	007GMW03UC				
	LAB SAMPLE ID --->	119760	119969				
	SAMPLE DATE ----->	03/14/95	03/15/95				
	DATE EXTRACTED -->	03/22/95	03/22/95				
	DATE ANALYZED --->	03/22/95	03/22/95				
	MATRIX ---------->	Water	Water				
	UNITS ---------->	mg/L A	mg/L A				
CAS #	Parameter						
9999900-03-5	Phosphorus Total	0.02 U	0.03				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 TPH						
SAMPLE ID ------->	007-G-MW01-LF	007-G-MW01-UC	007-G-MW01-UF	007-G-MW02-UC	007-G-MW03-LF	007-G-MW03-UC
ORIGINAL ID ----->	007GMW01LF	007GMW01UC	007GMW01UF	007GMW02UC	007GMW03LF	007GMW03UC
LAB SAMPLE ID --->	119971	119972	119973	119974	119760	119969
SAMPLE DATE ----->	03/15/95	03/15/95	03/15/95	03/15/95	03/14/95	03/15/95
DATE EXTRACTED -->	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95
DATE ANALYZED --->	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 TPH						
SAMPLE ID ------->	007-H-MW03-UC	007-G-MW03-UF	007-G-MW05-LF	007-G-MW05-UF	007-G-MW07-UC	007-G-MW08-UF
ORIGINAL ID ----->	007HMW03UC	007GMW03UF	007GMW05LF	007GMW05UF	007GMW07UC	007GMW08UF
LAB SAMPLE ID --->	119975	119761	119694	119695	119763	119764
SAMPLE DATE ----->	03/15/95	03/14/95	03/13/95	03/13/95	03/14/95	03/14/95
DATE EXTRACTED -->	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95
DATE ANALYZED --->	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 TPH							
	SAMPLE ID ------->	007-G-MW09-LS	007-G-MW09-UC	007-H-MW09-UC			
	ORIGINAL ID ----->	007GMW09LS	007GMW09UC	007HMW09UC			
	LAB SAMPLE ID --->	119765	119696	119697			
	SAMPLE DATE ----->	03/14/95	03/13/95	03/13/95			
	DATE EXTRACTED -->	04/03/95	04/03/95	04/03/95			
	DATE ANALYZED --->	04/03/95	04/03/95	04/03/95			
	MATRIX ---------->	Water	Water	Water			
	UNITS ---------->	mg/L A	mg/L A	mg/L A			
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	2. U	2. U	2. U			

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 TSS						
SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-LS	007-G-MW03-UC	007-G-MW03-UF		
ORIGINAL ID ----->	007GMW03LF	007GMW03LS	007GMW03UC	007GMW03UF		
LAB SAMPLE ID --->	119760	119970	119969	119761		
SAMPLE DATE ----->	03/14/95	03/15/95	03/15/95	03/14/95		
DATE ANALYZED --->	03/20/95	03/20/95	03/20/95	03/20/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-7 Total Suspended Solids (TSS)	17.	610.	24.	170.		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 Turbidity						
SAMPLE ID ------->	007-G-MW03-LF	007-G-MW03-LS	007-G-MW03-UC	007-G-MW03-UF		
ORIGINAL ID ----->	007GMW03LF	007GMW03LS	007GMW03UC	007GMW03UF		
LAB SAMPLE ID --->	119760	119970	119969	119761		
SAMPLE DATE ----->	03/14/95	03/15/95	03/15/95	03/14/95		
DATE ANALYZED --->	03/16/95	03/16/95	03/16/95	03/16/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	NTU A	NTU A	NTU A	NTU A		
CAS # Parameter						
9999900-04-4 Turbidity	19.	250.	14.	150.		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 VOA	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LF		007-G-MW03-LS	
	ORIGINAL ID ----->	007GMW01LF		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LF		007GMW03LS	
	LAB SAMPLE ID --->	119976		119977		119978		119979		119767		120296	
	SAMPLE DATE ----->	03/15/95		03/15/95		03/15/95		03/15/95		03/14/95			
	DATE ANALYZED --->	03/23/95		03/21/95		03/23/95		03/22/95		03/21/95		03/23/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	UJ
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	UJ	10.	U	10.	UJ
75-00-3	Chloroethane	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	78.		120.	
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	3.	J	10.	U	3.	J	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	2.	J	10.	U	18.		10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	2.	J	10.	U	5.	J	10.	U	10.	U	10.	U
67-66-3	Chloroform	2.	J	10.	U	10.	U	10.	U	8.	J	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	4.	J	10.	U	10.	U	10.	U	12.		10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	6.	J	10.	U	8.	J	10.	U	63.		10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	U
591-78-6	2-Hexanone	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	8.	J	10.	U	1.	J	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1342 VOA																	
	SAMPLE ID ------->	007-G-MW03-UC		007-H-MW03-UC		007-G-MW03-UF		007-G-MW05-LF		007-G-MW05-UF		007-G-MW07-UC	
	ORIGINAL ID ----->	007GMW03UC		007HMW03UC		007GMW03UF		007GMW05LF		007GMW05UF		007GMW07UC	
	LAB SAMPLE ID --->	119980		119981		119768		119699		119700		119769	
	SAMPLE DATE ----->	03/15/95		03/15/95		03/14/95		03/13/95		03/13/95		03/14/95	
	DATE ANALYZED --->	03/21/95		03/23/95		03/21/95		03/21/95		03/21/95		03/21/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	UJ	10.	UJ	10.	U	10.	U	10.	UJ
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	22.	U	20.		12.		10.	U	10.	U	10.	
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	4.	J	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	4.	J	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	UJ	10.	UJ	10.	U	10.	U	10.	UJ
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	6.	J	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	22.		10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	UJ	10.	UJ	10.	U	10.	U	10.	UJ
591-78-6	2-Hexanone	10.	U	10.	UJ	10.	UJ	10.	U	10.	U	10.	UJ
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1342 VOA	SAMPLE ID ------->	007-G-MW08-UF		007-G-MW09-LS		007-G-MW09-UC		007-H-MW09-UC			
	ORIGINAL ID ----->	007GMW08UF		007GMW09LS		007GMW09UC		007HMW09UC			
	LAB SAMPLE ID --->	119770		119771		119701		119702			
	SAMPLE DATE ----->	03/14/95		03/14/95		03/13/95		03/13/95			
	DATE ANALYZED --->	03/21/95		03/21/95		03/20/95		03/20/95			
	MATRIX ---------->	Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter										
74-87-3	Chloromethane	10.	U	10.	U	10.	UJ	10.	UJ		
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U		
75-01-4	Vinyl chloride	10.	U	10.	U	10.	UJ	10.	UJ		
75-00-3	Chloroethane	10.	UJ	10.	UJ	10.	U	10.	U		
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U		
67-64-1	Acetone	10.	U	10.	U	10.	UJ	29.	J		
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U		
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U		
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U		
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U		
67-66-3	Chloroform	10.	U	2.	J	10.	U	10.	U		
107-06-2	1,2-Dichloroethane	3.	J	10.	U	10.	U	10.	U		
78-93-3	2-Butanone (MEK)	10.	UJ	10.	UJ	10.	U	10.	U		
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U		
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U		
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U		
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U		
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U		
79-01-6	Trichloroethene	1.	J	10.	U	10.	U	10.	U		
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U		
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U		
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U		
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U		
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	UJ	10.	UJ	10.	UJ	10.	UJ		
591-78-6	2-Hexanone	10.	UJ	10.	UJ	10.	UJ	10.	UJ		
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U		
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U		
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U		
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U		
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U		
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U		
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U		

*** Validation Complete ***

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job N°:	95.00911, 95.00912, 95.00913, 95.00914, 95.00925, and 95.00926 (Level III Validation)
Case N°:	FD1345

Sample Identification	Matrix
007GGM09MF	Water
007GMW03LS	Water
007GMW08LS	Water
4BGF031695	Water
4BGGMW04LF	Water
4BGGMW04LS	Water
4BGGMW04UF	Water
2BGE031795	Water
2BGF031795	Water
2BGGMW02LF	Water
2BGGMW02LS	Water
5BGF031795	Water
5BGGMW05LF	Water
5BGHMW05LF	Water
5BGGMW05LS	Water
003E032095	Water
003F032095	Water
003GGM06UF	Water
5BGGMW05UF	Water
2BGGMW02LFS	Water
2BGGMW02LFD	Water

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INTRODUCTION

This data review report covers 21 water samples listed on the cover page. The analyses were per EPA Method 6010, 7421, 7841, 7060, 7470, 7740, and 9010 SW846, November 1986.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. HOLDING TIME

All criteria for laboratory contractual holding times were met.

Metal analyses were requested for samples 1BGE032095, 1BGF032095, 1BGGMW01LF, and 1BGHMW01LF on C.O.C. but were not analyzed by the laboratory.

II. CALIBRATION

Calibration curves were analyzed at the required frequency and met QC requirements.

CRDL standards for ICP and AA were analyzed and reported as required.

The frequency and analysis criteria of the calibration curve, initial calibration verification (ICV), and continuing calibration verification (CCV) were met.

Instrument detection limits (Form X), inter-element corrections (Form XI A & B) and linear range analysis (Form XII) were performed at required frequency.

III. BLANKS

The required frequency and criteria for blank analyses were met.

No contaminant above IDL was detected in the initial, continuing calibration, and preparation blanks except for the following:

Element	IDL (µg/L)	Initial Calibration Blank (µg/L)	Continuing Calibration Blank (µg/L)	Preparation Blank (µg/L)	Field, Trip, or Other Blank (µg/L)	Action Level (5 x highest blank) in (µg/L)	Samples Affected
Cadmium	3.0	-4.2		-4.2		21.0	All
Calcium	20.0			20.24		101.2	All
Iron	10.0			20.83		104.15	All
Lead	2.0				2.0	10.0	003GGM06UF
Silver	3.0		-4.6	-3.3		23.0	All
Zinc	5.0				5.3	26.5	007GGM09MF 007GMW03LS 007GMW08LS 4BGGMW04LF 4BGGMW04LS 4BGGMW04UF
Zinc	5.0				5.8	29.0	2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF 5BGGMW05LS

The sample data are qualified according to the contaminants found in the method blank(s). The qualified data are listed as follows:

Sample	Compound	Reported Concentration (ug/L)	Modified Final Concentration (ug/L)
2BGGMW02LS	Cd	5.0	5.0U
003GGM06UF	Pb	5.1	5.1U
007GGM09MF	Zn	7.1B	7.1U
4BGGMW04UF	Zn	5.4B	5.4U
2BGGMW02LF	Zn	11.2B	11.2U
5BGGMW05LF	Zn	5.1B	5.1U

IV. ICP INTERFERENCE CHECK SAMPLE (ICS)

The frequency and criteria for analysis were met.

Results for the ICP analyses of solution AB fell within 20% of the true value.

V. LABORATORY CONTROL SAMPLE (LCS)

The frequency and criteria for analysis were met.

VI. DUPLICATE SAMPLE ANALYSIS

Frequency and criteria for analysis were met.

VII. MATRIX SPIKE SAMPLE ANALYSIS

Spiked sample analysis was performed as required. The percent recoveries were within advisory limits of 75-125% except for the following:

Analyte	MS %R	Associated Samples	Flag
Se	129.5% (75-125%)	All	J(detect)/None(non-detect)

VIII. FURNACE ATOMIC ABSORPTION QC

The samples/elements for duplicate injection have %RSD within 20.0% except for the following:

The analytical spike recoveries were within QC limit of 85-115% except for the following:

Sample	Element	%R	QC Limit	Flag
MW02LF	Se	138.5	85-115%	J(detect)/UJ(non-detect)
GMW02LS	Se	76	85-115%	J(detect)/UJ(non-detect)
GMW05LF	Se	127	85-115%	J(detect)/UJ(non-detect)
GMW05UF	Se	117	85-115%	J(detect)/UJ(non-detect)
GGMW09MF	Se	124.5	85-115%	J(detect)/UJ(non-detect)
GMW08LS	Se	121.5	85-115%	J(detect)/UJ(non-detect)
GMW04UF	Se	117.5	85-115%	J(detect)/UJ(non-detect)
MW03LS	Tl	80	85-115%	J(detect)/UJ(non-detect)
GGM06UF	Tl	56	85-115%	J(detect)/UJ(non-detect)
MW02LF	As	118.5	85-115%	J(detect)/UJ(non-detect)
GGM06UF	As	117	85-115%	J(detect)/UJ(non-detect)
GMW04LS	Tl	78.0	85-115%	J(detect)/UJ(non-detect)
MW02LF	Pb	124.8	85-115%	J(detect)/UJ(non-detect)
GMW05LF	Pb	116.5	85-115%	J(detect)/UJ(non-detect)
HMW05LF	Pb	117.8	85-115%	J(detect)/UJ(non-detect)
GMW04LS	Pb	76.2	85-115%	J(detect)/UJ(non-detect)
GMW05UF	Pb	175.5	85-115%	J(detect)/UJ(non-detect)
GGM09MF	Pb	158	85-115%	J(detect)/UJ(non-detect)

IX. ICP SERIAL DILUTION

The frequency and criteria for analysis were met.

% D for the following was out of QC limit:

Element	IDL (µg/L)	50 x IDL (µg/L)	Sample #		%D	Associated Samples	Flag
			I (µg/L)	S (µg/L)			
Barium	2.0	100	155.45	130.60	16.0	All	J(detect)/None(non-detect)

X. SAMPLE RESULTS VERIFICATION

No raw data were reviewed.

XI. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit.

XII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Inorganic Data Qualification Summary - SDG Nº FD1345

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1345	ALL	Se	J(detect)/None(non-detect)	Matrix spike %R
FD1345	2BGGMW02LF	Se,Pb,As	J(detect)/UJ(non-detect)	Analytical spike %R
	2BGGMW02LS	Se	J(detect)/UJ(non-detect)	
	5BGGMW05LF	Se,Pb	J(detect)/UJ(non-detect)	
	5BGGMW05UF	Se,Pb	J(detect)/UJ(non-detect)	
	007GGM09MF	Se	J(detect)/UJ(non-detect)	
	007GMW08LS	Se	J(detect)/UJ(non-detect)	
	4BGGMW04UF	Se	J(detect)/UJ(non-detect)	
	007GMW03LS	Tl	J(detect)/UJ(non-detect)	
	003GGM06UF	Tl,As	J(detect)/UJ(non-detect)	
	5BGHMW05LF	Pb	J(detect)/UJ(non-detect)	
	4BGGMW04LS	Pb,Tl	J(detect)/UJ(non-detect)	
	007GGM09MF	Pb	J(detect)/UJ(non-detect)	
FD1345	ALL	Ba	J(detect)/None(non-detect)	Seral dilution %D
FD1345	2BGGMW02LS	Cd	U	Blank contamination
FD1345	003GGM06UF	Pb	U	Blank contamination
FD1345	007GGM09MF	Zn	U	Blank contamination
	4BGGMW04UF			
	2BGGMW02LF			
	5BGGMW05LF			

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	VOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00912, 95.914, 95.00926 (Level IV Validation)
Case Nº:	FD1345

Sample Identification	Matrix
003E032095	Water
003F032095	Water
003GGM06UF	Water
007GGM09MF	Water
007GMW01LS	Water
007GMW08LS	Water
007T031695	Water
2BGE031795	Water
2BGF031795	Water
2BGGMW02LF	Water
2BGGMW02LS	Water
4BGF031695	Water
4BGGMW04LF	Water
4BGGMW04LS	Water
4BGGMW040F	Water
5BGGMW05LF	Water
5BGGMW05LS	Water
5BGGMW05UF	Water
5BGHMW05LF	Water
5BGT031795	Water
2BGGMW02LFMS	Water
2BGGMW02LFMSD	Water

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INTRODUCTION

This data review report covers 22 water samples listed on the cover page. The analyses were per EPA Method 8240 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements.

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date/ Time	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
03/25/95 / 11:23	HP5970K	Chloromethane 2-Hexanone	36.7 (±25.0) 26.2 (±25.0)	007GGM09MF 007GMW01LS 007GMW08LS	J(detect)/UJ(non-detect)
03/27/95 / 11:27	HP5970K	Acetone	28.0 (±25.0)	003GGM06UF	J(detect)/UJ(non-detect)
03/24/95 / 10:36	HP5970K	Chloromethane	31.2 (±25.0)	4BGGMW04LF 4BGGMW04LS 4BGGMW04UF	J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. No contaminants were found in the method blank(s) that resulted in data qualifications.

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Concentration (ug/L)	Action Level (ug/L)		Samples Affected	Flag	Modified Final Concentration (ug/L)
				5 x	10 x			
03/20/95	5BGF031795	Acetone	8J		80	2BGGMW02LS 5BGGMW05LF 5BGGMW05LS	17 3J 3J	17U 10U 10U

Date	Blank	Compound	Concentration (ug/L)	Action Level (ug/L)		Samples Affected	Flag	Modified Final Concentration (ug/L)
				5 x	10 x			
03/20/95	5BGT031795	Acetone	12		120	2BGGMW02LS 5BGGMW05LF 5BGGMW05LS	17 3J 3J	17U 10U 40U

VI. SYSTEM MONITORING COMPOUNDS

System monitoring compounds were added to all samples and blanks as required by the SW846.

All system monitoring compound recoveries met QC requirements.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Compound	MS %R (Limit)	MSD %R (Limit)	RPD (Limit)	Flag
2BGGMW02LF	Trichloroethene Benzene Toluene	127 (71-120) 134 (76-127)	131 (71-120) 144 (76-127) 133 (76-125)		J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

The RRT, mass spectra, and chromatograms of reported compounds were examined and evaluated. Target compound identification met QC requirements.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

The chromatograms and mass spectra in every sample and blank were examined to verify the reported TIC. Their quantitations were reported according to SW846. Tentatively identified compounds met QC requirements.

XIV. SYSTEM PERFORMANCE

The on-going data acquisition during the period following the Instrument Performance QC Checks (e.g. blanks, tuning, and calibration) was thoroughly evaluated. System performance met QC requirements.

XV. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. All detected analytes were within QC limit.

XVI. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Volatile Data Qualification Summary - SDG Nº FD1345

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1345	007GGM09MF 007GMW01LS 007GMW08LS	Chloromethane 2-Hexanone	J(detect)/UJ(non-detect)	CC %D
FD1345	003GGM06UF	Acetone	J(detect)/UJ(non-detect)	CC %D
FD1345	2BGGMW02LS 5BGGMW05LF 5BGGMW05LS	Acetone	17U 10U 10U	FB Contamination
FD1345	2BGGMW02LF	Trichloroethene Benzene Toluene	J(detect)/UJ(non-detect)	MS/MSD R%
FD1345	4BGGMW04LF 4BGGMW04LS 4BGGMW04UF	Chloromethane	J(detect)/UJ(non-detect)	CC %D

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT (Revision 1)

Parameters:	SEMIVOLATILE
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00912, 95.00914, and 95.00926 (Level III Validation)
Case Nº:	FD1345

Sample Identification	Matrix
003E032095	Water
003F032095	Water
003GGM06UF	Water
007GGM09MF	Water
007GMW08LS	Water
2BGE031795	Water
2BGF031795	Water
2BGGMW02LF	Water
2BGGMW02LS	Water
4BGF031695	Water
4BGGMW04LF	Water
4BGGMW04LS	Water
4BGGMW04UF	Water
5BGT031795	Water
5BGGMW05LF	Water
5BGGMW05LS	Water
5BGGMW05UF	Water
5BGHMW05LF	Water
2BGGMW02LFMS	Water
2BGGMW02LFMSD	Water

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INTRODUCTION

This data review report covers 20 water samples listed on the cover page. The analyses were per EPA Method 8270 in SW846.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993). The subsections correlate to the above guidelines. In the event that the SW846 requirement is different from that of the guidelines, the guideline QC limit will be replaced by the SW846 QC limit.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Instrument performance check was carried out at 12-hour intervals.

All ion abundance requirements were met.

III. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

For all compounds and surrogates, percent relative standard deviations (%RSD) for RRF and relative response factors (RRF) met QC requirements except for the following:

Date	Instrument	Compound	%RSD (SW846 QC Limit)	Associated Samples	Flag
02/21/95	HP5970F	Hexachlorocyclopentadiene	43.7 (<30)	All	J(detect)/UJ(non-detect)

IV. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF and all of the continuing calibration RRF values met QC requirements except for the following:

Date	Instrument	Compound	%D (SW846 QC Limit)	Associated Samples	Flag
03/28/95 14:13	HP5907F	2,4-Dinitrophenol	32.9 (±25.0)	007GGM09MF	J(detect)/UJ(non-detect)
		4-Nitrophenol	40.1 (±25.0)	007GMW08LS	J(detect)/UJ(non-detect)
		Pentachlorophenol	30.2 (±25.0)		J(detect)/UJ(non-detect)
		Benzo(k)fluoranthene	-28.2 (±25.0)		J(detect)/UJ(non-detect)
		Benzo(a)pyrene	-27.6 (±25.0)		J(detect)/UJ(non-detect)
03/29/95 13:43	HP5907F	2,4-Dinitrophenol	68.1 (±25.0)	4BGGMW04LF	J(detect)/UJ(non-detect)
		4-Nitrophenol	40.6 (±25.0)	4BGGMW04LS	J(detect)/UJ(non-detect)
		Benzo(k)fluoranthene	25.1 (±25.0)	4BGGMW04UF	J(detect)/UJ(non-detect)
		Benzo(a)pyrene	-27.1 (±25.0)	2BGGMW02LF	J(detect)/UJ(non-detect)
				2BGGMW02LS	J(detect)/UJ(non-detect)
				5BGGMW05LF	J(detect)/UJ(non-detect)
				5BGGMW05LS	J(detect)/UJ(non-detect)
				5BGGMW05UF	J(detect)/UJ(non-detect)
04/04/95 10:42	HP5907F	2,2-Oxybis(1-Chlorpropane)	33.9 (±25.0)	003GGM06UF	J(detect)/UJ(non-detect)
		2,4-Dinitrophenol	33.5 (±25.0)		J(detect)/UJ(non-detect)
		4-Nitrophenol	34.3 (±25.0)		J(detect)/UJ(non-detect)
		Benzo(k)fluoranthene	-30.6 (±25.0)		J(detect)/UJ(non-detect)

V. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank analyses were performed at required frequencies. Contaminants found in the field blank(s) that resulted in data qualifications are listed as follow:

Date	Blank	Compound	Action Level (ug/L)		Samples Affected	Reported Concentration (x/x)	Modified Final Concentration (x/x)
			5 x	10 x			
03/29/95	2BGF031795	bis(2-ethylhexyl)phthalate	3J	30	5BGHMW05LF	3J	10U

VI. SURROGATE SPIKES

Surrogate spikes were added to all samples and blanks as required by the SW846.

All surrogate spike recoveries met QC requirements except for the following:

Sample	Surrogate Spike Compound	%R	QC Limit	Compounds Affected	Flag
2BGGMW02LF	2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	6 7 26	21-110 10-123 33-110	All acid compounds	J(detect)/UR(non-detect)

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

10 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Spiked Compound	MS %R (Limit)	MSD %R (Limit)	RPD (Limit)	Flag
2BGGMW02LF	2-Chlorophenol Pentachlorophenol	10 (27-123) 7 (9-103)	16 (27-123)	46 (<40)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

LCS not required by SW846.

IX. REGIONAL QUALITY ASSURANCE AND QUALITY CONTROL

Not applicable.

X. INTERNAL STANDARDS

All internal standard areas and retention times met QC requirements.

XI. TARGET COMPOUND IDENTIFICATION

No raw data were reviewed.

XII. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

No raw data were reviewed.

XIV. SYSTEM PERFORMANCE

No raw data were reviewed.

XV. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XVI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Semivolatile Data Qualification Summary - SDG Nº FD1345

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1345	All	Hexachlorocyclopentadiene	J(detect)/UJ(non-detect)	IC %RSD
FD1345	007GGM09MF 007GMW08LS	2,4-Dinitrophenol 4-Nitrophenol Pentachlorophenol Benzo(k)fluoranthene Benzo(a)pyrene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1345	4BGGMW04LF 4BGGMW04LS 4BGGMW04UF 2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF 5BGGMW05LS 5BGGMW05UF	2,4-Dinitrophenol 4-Nitrophenol Pentachlorophenol Benzo(k)fluoranthene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1345	003GGM06UF	2,2-Oxybis(1-chloropropane) 2,4-Dinitrophenol 4-Nitrophenol Benzo(k)fluoranthene	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV %D
FD1345	2BGGMW02LF	All acid compounds	J(detect)/UR(non-detect)	Surrogate %R
FD1345	2BGGMW02LF	2-Chlorophenol Pentachlorophenol	J(detect)/UJ(non-detect)	MS/MSD %R and RPD
FD1345	5BGHMW05LF	Bis(2ethylhexyl)phthalate	10U	Field Blank Contamination

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters: ORGANOCHLORINE PESTICIDES/PCBs

Project NAS Millington 0094/09000

Client: Ensafe/Allen & Hoshall

Laboratory: NET Atlantic, Inc.
Cambridge Division

NET Job Nº: 95.00912, 95.00914, and 95.00926 (Level III Validation)

Case Nº: FD1345

Sample Identification	Matrix
003E032095	Water
003F032095	Water
003GGM06UF	Water
007GGM09MF	Water
007GGM08LS	Water
2BGE031795	Water
2BGF031795	Water
2BGGMW02LF	Water
2BGGMW02LS	Water
4BGF031695	Water
4BGGMW04LF	Water
4BGGMW04LS	Water
4BGGMW04UF	Water
5BGF031795	Water
5BGGMW05LF	Water
5BGGMW05LS	Water
5BGGMW05UF	Water
5BGHMW05LF	Water
2BGGMW02LFMS	Water
2BGGMW02LFMSD	Water

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INTRODUCTION

This data review report covers 20 water samples listed on the cover page. The analyses were per EPA Method 8080 in SW846, November 1986.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

The retention time of TCX and DCB were within the QC limit.

III. INITIAL CALIBRATION

Initial calibration of single and multi-component analytes were performed for both columns.

The retention time windows for both columns were established according to the SW846 (Form 6D).

Peaks for multi-component analytes were properly identified (Form 6F).

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6E).

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit except for the following:

Date/ Time	Standard	Compound	%D Primary Column (XT-15)	%D Secondary Column (RTX35)	QC Limit	Associated Samples	Flag
03/30/95 1:20	INDBM10	Endrin Aldehyde	-18.37		±15.0	4BGGMW04LS 4BGGMW04UF	J(detect)/UJ(non-detect)
03/31/95 15:29 17:59	1NDAM13 2NDBM13	Methoxychlor Endrin Aldehyde Endrin Ketone	-17.74 -21.53 -15.95		±15.0 ±15.0 ±15.0	5BGGMW05LF 5BGHMW05LF 5BGGMW05LS 5BGGMW05UF 003GGM06UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
04/01/95 1:13	1NDBM14	Endrin Aldehyde	-19.73		±15.0	003GGM06UF	J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. RT windows were all within QC limit.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank analyses were performed at required frequencies.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VIII. LABORATORY CONTROL SAMPLES

No laboratory control samples were reported for this SDG.

IX. COMPOUND IDENTIFICATION

Form I, and the identification summary (Form X) were reviewed and all compounds were properly identified.

X. FLORISIL CARTRIDGE CHECK

The %R for florisil cartridge check were within QC limits.

The florisil clean up was applied to all samples, blanks, MS, and MSD.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XII. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Pesticide/PCBs Data Qualification Summary - SDG Nº FD1345

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1345	4BGGMW04LS 4BGGMW04UF	Endrin Aldehyde	J(detect)/UJ(non-detect)	CCV D%
FD1345	5BGGMW05LF 5BGHMW05LF 5BGGMW05LS 5BGGMW05UF 003GGM06UF	Methoxychlor Endrin Aldehyde Endrin Ketone	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV D%
FD1345	003GGM06UF	Endrin Aldehyde	J(detect)/UJ(non-detect)	CCV D%

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters: ORGANOPHOSPHORUS PESTICIDES

Project: NAS Millington 0094/09000

Client: Ensafe/Allen & Hoshall

Laboratory: NET Atlantic, Inc.
Cambridge Division

NET Job Nº: 95.00911, 95.00913, and 95.00925 (Level III Validation)

Case Nº: FD1345

Sample Identification	Matrix
007GGM09MF	Water
4BGF031695	Water
4BGGMW04LF	Water
4BGGMW04LS	Water
4BGGMW04UF	Water
2BGE031795	Water
2BGF031795	Water
2BGGMW02LF	Water
2BGGMW02LS	Water
5BGF031795	Water
5BGGMW05LF	Water
5BGHMW05LF	Water
5BGGMW05LS	Water
5BGGMW05UF	Water
003E032095	Water
003F032095	Water
003GGM06UF	Water
007GMW08LSRE	Water
2BGGMW02LFMS	Water
2BGGMW02LFMSD	Water

630 Maple Ave., Torrance, Calif. 90503 • Telephone 310-618-8889 • Fax: 310-618-0818

INTRODUCTION

This data review report covers 20 water samples listed on the cover page. The analyses were per EPA Method 8140, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met except for the following:

Sample	Matrix	Date of Collection	Date of Extraction	Date of Analysis	Extraction Holding Time (QC Limit/Days)	Flag
007GMW08LSRE	Water	03/16/95	03/31/95	04/10/95	15(7)	J(detect)/UJ(non-detect)

007GMW08LSRE is a re-extracted sample. The data of the original sample was not included in this package. Therefore, whether or not data for the re-extracted sample should be used cannot be evaluated.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD (RTX35) Primary Column	QC Limit	Samples Affected	Flag
03/23/95 00:05	RF250 RF500 RF1000 RF2000 RF4000	Naled Merphos Fensulfothion Guthion	20.2 48.7 23.6 34.1	±20.0 ±20.0 ±20.0 ±20.0	007GGM09MF 4BGGMW04LF 4BGGMW04LS 4BGGMW04UF 2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF 5BGGMW05LS 5BGGMW05UF 003GGM06UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)
04/04/95	RF250 RF500 RF1000 RF2000 RF4000	Mevinphos, Alpha Fensulfothion Guthion	28.3 31.9 26.5	±20.0 ±20.0 ±20.0	007GMW08LSRE	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard	Compound	%D Primary Column	QC Limit	Associated Samples	Flag

3/31/95 7:08	RF1000	Dichlorvos	-166.9 (RTX35)	±15.0	007GGM09MF	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	-109.7 (RTX35)	±15.0	4BGGMW04LF	J(detect)/UJ(non-detect)
		Demeton, O	29.6 (RTX35)	±15.0	4BGGMW04LS	J(detect)/UJ(non-detect)
		Ethoprop	20.3 (RTX35)	±15.0	4BGGMW04UF	J(detect)/UJ(non-detect)
		Naled	-34.9 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Trichloronate	46.4 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Merphos	-18.2 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Tokuthion	49.2 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Stirophos	-54.9 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	47.7 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Guthion	42.6 (RTX35)	±15.0		J(detect)/UJ(non-detect)
03/31/95 15:31	RF1000	Dichlorvos	-141.0 (RTX35)	±15.0	007GGM09MF	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	-87.5 (RTX35)	±15.0	4BGGMW04LF	J(detect)/UJ(non-detect)
		Demeton, O	47.2 (RTX35)	±15.0	4BGGMW04LS	J(detect)/UJ(non-detect)
		Ethoprop	46.0 (RTX35)	±15.0	4BGGMW04UF	J(detect)/UJ(non-detect)
		Naled	-28.4 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Methyl parathion	-20.1 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Ronnel	18.8 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Trichloronate	55.8 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Merphos	200.0 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Tokuthion	38.8 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Fensulfothion	32.0 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Stirophos	-153.7 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	56.6(RTX35)	±15.0		J(detect)/UJ(non-detect)
		Guthion	57.3(RTX35)	±15.0		J(detect)/UJ(non-detect)
		Coumophos	23.8(RTX35)	±15.0		J(detect)/UJ(non-detect)
03/31/95 16:51	RF1000	Dichlorvos	-127.8 (RTX35)	±15.0	2BGGMW02LF	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	-93.4 (RTX35)	±15.0	2BGGMW02LS	J(detect)/UJ(non-detect)
		Demeton, O	43.5 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Ethoprop	38.4 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Naled	200.0 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Disulfoton	23.2 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Ronnel	21.4 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Trichloronate	58.1 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Merphos	26.8 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Tokuthion	55.1 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Fensulfothion	26.3 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Stirophos	-31.8 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Sulprofos	59.4(RTX35)	±15.0		J(detect)/UJ(non-detect)
		Guthion	63.1(RTX35)	±15.0		J(detect)/UJ(non-detect)
		Coumophos	23.2(RTX35)	±15.0		J(detect)/UJ(non-detect)
04/01/95 8:44	RF1000	Dichlorvos	-55.1 (RTX35)	±15.0	2BGGMW02LF	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	-25.0 (RTX35)	±15.0	2BGGMW02LS	J(detect)/UJ(non-detect)
		Demeton, O	59.2 (RTX35)	±15.0	5BGGMW05LF	J(detect)/UJ(non-detect)
		Ethoprop	62.8 (RTX35)	±15.0	5BGHMW05LF	J(detect)/UJ(non-detect)
		Naled	200.0 (RTX35)	±15.0	5BGGMW05LS	J(detect)/UJ(non-detect)
		Phorate	39.9 (RTX35)	±15.0	5BGHMW05UF	J(detect)/UJ(non-detect)
		Demeton-S	46.7 (RTX35)	±15.0	003GGM06UF	J(detect)/UJ(non-detect)
		Diazinon	46.7 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Disulfonton	54.5 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Methyl parathion	30.8 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Ronnel	47.1 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Fenthion	42.3 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Chloropyritos	39.2 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Trichloronate	72.4 (RTX35)	±15.0		J(detect)/UJ(non-detect)
		Merphos	45.1 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Tokuthion	45.8 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Fensulfothion	58.3 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Sulprofos	73.9 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Guthion	75.2 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Coumophos	58.8 (RTX35)	±15.01		J(detect)/UJ(non-detect)

04/01/95 19:18	RF1000	Dichlorvos	-85.1 (RTX35)	±15.01	5BGGMW05LF	J(detect)/UJ(non-detect)
		Mevinphos, Alpha	-26.0 (RTX35)	±15.01	5BGHMW05LF	J(detect)/UJ(non-detect)
		Demeton, O	58.8 (RTX35)	±15.01	5BGHMW05LS	J(detect)/UJ(non-detect)
		Ethoprop	66.7 (RTX35)	±15.01	5BGHMW05UF	J(detect)/UJ(non-detect)
		Naled	200.0 (RTX35)	±15.01	003GGM06UF	J(detect)/UJ(non-detect)
		Phorate	48.7 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Demeton-S	51.8 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Diazinon	58.3 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Disulfonton	58.5 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Methyl parathion	50.2 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Ronnel	45.5 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Fenthion	48.3 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Chloropyritos	57.4 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Trichloronate	72.5 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Merphos	53.2 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Tokuthion	68.1 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Fensulfothion	63.0 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Sulprofos	73.0 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Guthion	78.2 (RTX35)	±15.01		J(detect)/UJ(non-detect)
		Coumophos	61.6 (RTX35)	±15.01		J(detect)/UJ(non-detect)
04/10/95 9:05	RF1000	Dichlorvos	24.5 (RTX-5)	±15.01	007GMW08LSRE	J(detect)/UJ(non-detect)
		Ethoprop	-18.3 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Phorate	-16.1 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Disulfoton	-21.0 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Merphos	21.9 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Tokuthion	-28.6 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Fensulfothion	-40.8 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Sulprofos	-29.4 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Guthion	-16.8 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Coumophos	-117.8 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
04/11/95 1:17	RF1000	Demeton, O	-22.3 (RTX-5)	±15.01	007GMW08LSRE	J(detect)/UJ(non-detect)
		Ethoprop	-35.3 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Phorate	-26.9 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Demeton-S	-20.7 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Diazinon	-27.9 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Methyl parathion	-25.0 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Ronnel	-24.3 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Fenthion	-41.1 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Chlorpyrites	-25.8 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Trichloronate	-25.9 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Merphos	+37.0 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Tokuthion	-33.8 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Fensulfothion	-25.3 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Sulprofos	-28.0 (RTX-5)	±15.01		J(detect)/UJ(non-detect)
		Coumophos	-126.7 (RTX-5)	±15.01		J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies.

Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
2BGGMW02LF	RTX35	Dichlorvos	160 (50-150%)	44 (50-150%)	114 (±15%)	J(detect)/UJ(non-detect)
		Mevinphos, A		39 (50-150%)	117 (±15%)	J(detect)/UJ(non-detect)
		Demeton, O	28 (50-150%)	9 (50-150%)	103 (±15%)	J(detect)/UJ(non-detect)
		Ethoprop	33 (50-150%)	8 (50-150%)	122 (±15%)	J(detect)/UJ(non-detect)
		Naled	0 (50-150%)	0 (50-150%)		J(detect)/R(non-detect)
		Phorate	47 (50-150%)	11 (50-150%)	124 (±15%)	J(detect)/UJ(non-detect)
		Demeton-S		11 (50-150%)	129 (±15%)	J(detect)/UJ(non-detect)
		Diazinon	45 (50-150%)	12 (50-150%)	116 (±15%)	J(detect)/UJ(non-detect)
		Disulfonton	39 (50-150%)	9 (50-150%)	125 (±15%)	J(detect)/UJ(non-detect)
		Parathion, M		10 (50-150%)	144 (±15%)	J(detect)/UJ(non-detect)
		Ronnel	45 (50-150%)	11 (50-150%)	121 (±15%)	J(detect)/UJ(non-detect)
		Ferthion	42 (50-150%)	10 (50-150%)	123 (±15%)	J(detect)/UJ(non-detect)
		Chlorpyritos		15 (50-150%)	128 (±15%)	J(detect)/UJ(non-detect)
		Trichloronate	24 (50-150%)	6 (50-150%)	120 (±15%)	J(detect)/UJ(non-detect)
		Merphos		31 (50-150%)	112 (±15%)	J(detect)/UJ(non-detect)
		Tokuthion	38 (50-150%)	7 (50-150%)	138 (±15%)	J(detect)/UJ(non-detect)
		Fensulfothion		15 (50-150%)	131 (±15%)	J(detect)/UJ(non-detect)
		Stirophos		25 (50-150%)	126 (±15%)	J(detect)/UJ(non-detect)
		Sulprofos	24 (50-150%)	7 (50-150%)	110 (±15%)	J(detect)/UJ(non-detect)
		Guthion	33 (50-150%)	5 (50-150%)	147 (±15%)	J(detect)/UJ(non-detect)
		Coumophos	38 (50-150%)	10 (50-150%)	117 (±15%)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements except for the following:

LCS	Column	LCS Spike	%R (QC Limit)	RT (QC Limit)	Associated Samples	Flag
NLCS10322A	RTX35	Dichlorvos	223.6 (50-150)		007GGM09MF	J(detect)/None(non-detect)
		Mevinphos, Alpha	225.8 (50-150)		4BGGMW04LF	J(detect)/None(non-detect)
		Demeton, O	35.7 (50-150)		4BGGMW04LS	J(detect)/UJ(non-detect)
		Naled		26.41 (26.44-26.64)	4BGGMW04UF	J(detect)/UJ(non-detect)
		Trichloronate	48.3 (50-150)			J(detect)/UJ(non-detect)
		Merphos	533.3 (50-150)			J(detect)/None(non-detect)
		Stirophos	160.8 (50-150)			J(detect)/None(non-detect)
		Coumophos		68.09 (66.83-67.86)		J(detect)/UJ(non-detect)
NLCS10324A	RTX35	Dichlorvos	165.4 (50-150)		2BGGMW02LF	J(detect)/None(non-detect)
		Mevinphos, Alpha	194.9 (50-150)		2BGGMW02LS	J(detect)/None(non-detect)
		Demeton, O	31.8 (50-150)		5BGGMW05LF	J(detect)/UJ(non-detect)
		Ethoprop	37.4 (50-150)		5BGHMW05LF	J(detect)/UJ(non-detect)
		Naled	0.0 (50-150)	0.00 (26.44-26.64)	5BGGMW05LS	J(detect)/UR(non-detect)
		Disulfoton	44.9 (50-150)		5BGGMW05UF	J(detect)/UJ(non-detect)
		Trichloronate	28.3 (50-150)		003GGM06UF	J(detect)/UJ(non-detect)
		Tokuthion	29.2 (50-150)			J(detect)/UJ(non-detect)
		Sulprofos	28.0 (50-150)			J(detect)/UJ(non-detect)
		Guthion	26.9 (50-150)			J(detect)/UJ(non-detect)
		Coumophos	47.4 (50-150)			J(detect)/UJ(non-detect)
NLCS10331A	RTX35	Demeton-S		20.89 (20.90-21.1)	007GMW08LSRE	J(detect)/UJ(non-detect)
		Fensulfothion	162.8 (50-150)			J(detect)/UJ(non-detect)
		Coumophos	217.6 (50-150)			J(detect)/None(non-detect)

IX. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detected.

X. COMPOUND QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

XI. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XII. OVERALL ASSESSMENT OF DATA

Data flags have been summarized at the end of the report.

Organophosphorus Pesticides Data Qualification Summary - SDG Nº FD1345

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1345	007GMW08LSRE	All compounds	J(detect)/UJ(non-detect)	Holding time out of limit
FD1345	007GGM09MF 4BGGMW04LF 4BGGMW04LS 4BGGMW04UF 2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF 5BGGMW05LS 5BGGMW05UF 003GGM06UF	Naled Merphos Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	IC %RSD
FD1345	007GMW08LSRE	Mevinphos, Alpha Fensulfothion Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	IC %RSD
FD1345	007GGM09MF 4BGGMW04LF 4BGGMW04LS 4BGGMW04UF	Dichlorvos Mevinphos, Alpha Demeton, O Ethoprop Naled Trichloronate Merphos Tokuthion Stirophos Sulprofos Guthion	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV D%
FD1345	007GGM09MF 4BGGMW04LF 4BGGMW04LS 4BGGMW02UF	Dichlorvos Mevinphos, Alpha Demeton, O Ethoprop Naled Methyl parathion Ronnel Trichloronate Merphos Tokuthion Fensulfothion Stirophos Sulprofos Guthion Coumophos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV D%
FD1345	2BGGMW02LF 2BGGMW02LS	Dichlorvos Mevinphos, Alpha Demeton, O Ethoprop Naled Disulfoton Ronnel Trichloronate Merphos Tokuthion Fensulfothion Stirophos Sulprofos Guthion Coumophos	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	CCV D%

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1345	2BGGMW02LF	Dichlorvos	J(detect)/UJ(non-detect)	CCV D%
	2BGGMW02LS	Mevinphos, Alpha	J(detect)/UJ(non-detect)	
	5BGGMW05LF	Demeton, O	J(detect)/UJ(non-detect)	
	5BGHMW05LF	Ethoprop	J(detect)/UJ(non-detect)	
	5BGGMW05LS	Naled	J(detect)/UJ(non-detect)	
	5BGGMW05UF	Phorate	J(detect)/UJ(non-detect)	
	003GGM06UF	Demeton-S	J(detect)/UJ(non-detect)	
		Diazinon	J(detect)/UJ(non-detect)	
		Disulfonton	J(detect)/UJ(non-detect)	
		Methyl parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chloropyritos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumophos	J(detect)/UJ(non-detect)	
FD1345	5BGGMW05LF	Dichlorvos	J(detect)/UJ(non-detect)	CCV D%
	003GGM06UF	Mevinphos, Alpha	J(detect)/UJ(non-detect)	
	5BGHMW05LF	Demeton, O	J(detect)/UJ(non-detect)	
	5BGGMW05LS	Ethoprop	J(detect)/UJ(non-detect)	
	5BGGMW05UF	Naled	J(detect)/UJ(non-detect)	
		Phorate	J(detect)/UJ(non-detect)	
		Demeton-S	J(detect)/UJ(non-detect)	
		Diazinon	J(detect)/UJ(non-detect)	
		Disulfonton	J(detect)/UJ(non-detect)	
		Methyl parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chloropyritos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumophos	J(detect)/UJ(non-detect)	
FD1345	007GMW08LSRE	Dichlorvos	J(detect)/UJ(non-detect)	CCV D%
		Ethoprop	J(detect)/UJ(non-detect)	
		Phorate	J(detect)/UJ(non-detect)	
		Disulfoton	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumophos	J(detect)/UJ(non-detect)	
FD1345	007GMW08LSRE	Demeton, O	J(detect)/UJ(non-detect)	CCV D%
		Ethoprop	J(detect)/UJ(non-detect)	
		Phorate	J(detect)/UJ(non-detect)	
		Demeton-S	J(detect)/UJ(non-detect)	
		Diazinon	J(detect)/UJ(non-detect)	
		Methyl parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chlorpyritos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Coumophos	J(detect)/UJ(non-detect)	

SDG N°	Sample ID	Parameter	Flag	Reason
FD1345	2BGGMW02LF	Dichlorvos	J(detect)/UJ(non-detect)	MS/MSD %R and RPD
		Mevinphos, Alpha	J(detect)/UJ(non-detect)	
		Demeton, O	J(detect)/UJ(non-detect)	
		Ethoprop	J(detect)/UJ(non-detect)	
		Naled	J(detect)/UR(non-detect)	
		Phorate	J(detect)/UJ(non-detect)	
		Demeton-S	J(detect)/UJ(non-detect)	
		Diazinon	J(detect)/UJ(non-detect)	
		Disulfonton	J(detect)/UJ(non-detect)	
		Methyl parathion	J(detect)/UJ(non-detect)	
		Ronnel	J(detect)/UJ(non-detect)	
		Fenthion	J(detect)/UJ(non-detect)	
		Chloropyritos	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Fensulfothion	J(detect)/UJ(non-detect)	
		Stirophos	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumophos	J(detect)/UJ(non-detect)	
FD1345	007GGM09MF	Dichlorvos	J(detect)/None(non-detect)	LCS %R
	4BGGMW04LF	Mevinphos, Alpha	J(detect)/None(non-detect)	
	4BGGMW04LS	Demeton, O	J(detect)/UJ(non-detect)	
	4BGGMW04UF	Naled	J(detect)/UJ(non-detect)	
		Trichloronate	J(detect)/UJ(non-detect)	
		Merphos	J(detect)/None(non-detect)	
		Stirophos	J(detect)/None(non-detect)	
		Coumophos	J(detect)/UJ(non-detect)	
FD1345	2BGGMW02LF	Dichlorvos	J(detect)/None(non-detect)	LCS %R
	2BGGMW02LS	Mevinphos, Alpha	J(detect)/None(non-detect)	
	5BGGMW05LF	Demeton, O	J(detect)/UJ(non-detect)	
	5BGHMW05LF	Ethoprop	J(detect)/UJ(non-detect)	
	5BGGMW05LS	Naled	J(detect)/UR(non-detect)	
	5BGGMW05UF	Disulfoton	J(detect)/UJ(non-detect)	
	003GGM06UF	Trichloronate	J(detect)/UJ(non-detect)	
		Tokuthion	J(detect)/UJ(non-detect)	
		Sulprofos	J(detect)/UJ(non-detect)	
		Guthion	J(detect)/UJ(non-detect)	
		Coumophos	J(detect)/UJ(non-detect)	
FD1345	007GMW08LSRE	Demethion	J(detect)/UJ(non-detect)	LCS %R
		Fensulfothion	J(detect)/UJ(non-detect)	
		Coumophos	J(detect)/None(non-detect)	

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	ORGANOCHLORINE HERBICIDES
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00911, 95.00913, and 95.00925 (Level IV Validation)
Case Nº:	FD1345

Sample Identification	Matrix
003E032095	Water
003F032095	Water
003GGM06UF	Water
007GGM09MF	Water
007GMW08LS	Water
2BGE031795	Water
2BGF031795	Water
2BGGMW02LF	Water
2BGGMW02LS	Water
4BGF031695	Water
4BGGMW04LF	Water
4BGGMW04LS	Water
4BGGMW04UF	Water
5BGF031795	Water
5BGGMW05LF	Water
5BGGMW05LS	Water
5BGGMW05UF	Water
5BGHMW05LF	Water
2BGGMW02LFMS	Water
2BGGMW02LFMSD	Water

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INTRODUCTION

This data review report covers 20 water samples listed on the cover page. The analyses were per EPA Method 8150, SW846, November 1986.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993) as there are no current guidelines for evaluating chlorinated pesticides.

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

Raw data checks were carried out for this SDG, the review was based on full documentation.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. ANALYTICAL SEQUENCE

Standards, blanks, and sample extracts were analyzed according to the required analytical sequence and frequency.

III. INITIAL CALIBRATION

Initial calibration of analytes were performed for both columns.

The %RSDs for calibration factors of single component analytes for the primary column were within QC limits (Form 6B) except for the following:

Date/ Time	Standard/ Column	Compounds	%RSD(RTX35)	QC Limit	Associated Samples	Flag
03/30/95 10:11	RF1X RF2X RF4X RF10X RF20X	MCPP DINOSEB	34.9 45.8	≤20.0%	All samples	J(detect)/UJ(non-detect)

IV. CALIBRATION VERIFICATION

Calibration verifications were performed at required frequencies and sequence for both columns. %Ds for the primary column were within QC limit (Form 7B) except for the following:

Date/ Time	Standard/ Column	Compound	%D Primary Column (RTX35)	QC Limits	Associated Samples	Flag
03/30/95 23:18	RF4X	MCPP MCPA	-26.3 -15.2	±15.0%	007GGM09MF 007GMW08LS 4BGGMW04LF 4BGGMW04LS 4BGGMW04UF 2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF	J(detect)/UJ(non-detect)
03/31/95 07:32	RF4X	MCPP	-21.3	±15.0%	2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF 5BGGMW05LS 5BGGMW05UF	J(detect)/UJ(non-detect)
03/31/95 11:41	RF4X	DINOSEB	15.2	±15.0%	5BGGMW05LS 5BGGMW05UF	J(detect)/UJ(non-detect)
04/01/95 04:19	RF4X	MCPP MCPA DINOSEB	-30.1 -16.8 -16.1	±15.0%	003GGM06UF	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)

V. BLANKS

Instrument blank(s) was/were performed at the required frequency. No contaminant was found in the instrument blank(s) that resulted in data qualifications.

The method blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank(s) was/were extracted and performed according to the SW846. No contaminant was found in the field blank(s) that resulted in data qualifications.

VI. SURROGATE SPIKES

Surrogate spikes were analyzed as required by the SW846. Surrogate spike recoveries were within QC limits.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits except for the following:

Sample	Column	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limit)	Flag
2BGGMW02LF	RTX35	MCPP MCPA 2,4-DB 2,4-D	14 (20-150%) 16 (20-150%) 10 (20-150%)	12 (20-150%) 16 (20-150%) 7 (20-150%)	22 (≤20%) 22 (≤20%) 22 (≤20%)	J(detect)/UJ(non-detect)

VIII. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

IX. ESTERIFICATION SPIKE SAMPLE

Esterification spike samples were analyzed and met QC requirements.

X. COMPOUND IDENTIFICATION

Form 1, the associated raw data, and the identification summary (Form 10) were reviewed and all compounds were non-detects.

XI. COMPOUND QUANTITATION AND REPORTED CRQLs

All sample results were checked against raw data to verify the correct calculation. The CRQLs of all samples were checked to make sure that they reflected all sample dilution, concentrations, split, clean-up activities, and dry weight factors. Compound quantitation and reported CRQLs met QC requirements.

XII. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

XIII. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

Organochlorine Herbicides Data Qualification Summary - SDG Nº FD1345

SDG Nº	Sample ID	Parameter	Flag	Reason
FD1345	All samples	MCPP DINOSEB	J(detect)/UJ(non-detect) J(detect)/UJ(non-detect)	Initial Calibration %RSD
FD1345	007GGM09MF 007GMW08LS 4BGGMW04LF 4BGGMW04LS 4BGGMW04UF 2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF	MCPP MCPA	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1345	2BGGMW02LF 2BGGMW02LS 5BGGMW05LF 5BGHMW05LF 5BGGMW05LS 5BGGMW05UF	MCPP	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1345	5BGGMW05LS 5BGGMW05UF	DINOSEB	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1345	003GGM06UF	MCPP MCPA DINOSEB	J(detect)/UJ(non-detect)	Continuing Calibration %D
FD1345	2BGGMW02LF	MCPP MCPA 2,4-DB 2,4-D	J(detect)/UJ(non-detect)	MS/MSD %R and RPD

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	TOTAL RECOVERABLE PETROLEUM HYDROCARBON BY IR METHOD 418.1
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00914, 95.00913, and 95.00911 (Level III Validation)
Case Nº:	FD1345

Sample Identification	Matrix
007GGM09MF	Water
007GGM08LS	Water
4BGF031695	Water
4BGGMW04LF	Water
4BGGMW04LS	Water
4BGGMW04UF	Water
2BGE031795	Water
2BGF031795	Water
2BGGMW02LF	Water
2BGGMW02LFMS	Water
2BGGMW02LFMSD	Water
2BGGMW02LS	Water
5BGF031795	Water
5BGGMW05LF	Water
5BGHMW05LF	Water
5BGGMW05LS	Water
5BGGMW05UF	Water
003E032095	Water
003F032095	Water
003GGM06UF	Water

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INTRODUCTION

This data review report covers 20 water samples listed on the cover page. The analyses were per EPA 418.1 in "Method for Chemical Analysis of Water and Wastes" EPA 600/4-79/020.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February, 1993).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data checks were carried out for this SDG, the review was based on QC data.

I. HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Not applicable because all analyses were done within the same day of initial calibration.

IV. BLANKS

The method blank analyses were performed at required frequencies. No contaminant was found in the method blank(s) that resulted in data qualifications.

The field blank analyses were performed at required frequencies. No contaminant was found in the field blank(s) that resulted in data qualifications.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CROLs

No raw data were reviewed.

IX. FIELD DUPLICATES

1 set of field duplicates was analyzed in this SDG. No target analytes were detected in any of the samples.

X. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

TRPH by IR Method 418.1 Data Qualification Summary - SDG Nº FD1345

No data were qualified for this SDG.

C K Y incorporated
Environmental Services

DATA VALIDATION REPORT

Parameters:	GENERAL INORGANIC
Project	NAS Millington 0094/09000
Client:	Ensafe/Allen & Hoshall
Laboratory:	NET Atlantic, Inc. Cambridge Division
NET Job Nº:	95.00911, 95.00913, and 95.00925 (Level III Validation)
Case Nº:	FD1345

Sample Identification	Matrix
007GMW03LS	Water
007GMW03LSMS	Water
007GMW03LSMSD	Water

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INTRODUCTION

This data review report covers 3 water samples listed on the cover page. The analyses were per EPA Method 351.2, Method 335.2, and Method 365.3 in "Method for Chemical Analysis of Water and Wastes," EPA 600/4-79/020, Revised March 1983.

This review follows the approach of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February, 1994).

Definition of Qualifiers:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of analyte that has been "tentatively identified: and the associated numerical value represents its approximate concentration.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

A table summarizing all data qualification flags is provided at the end of this report.

No raw data were checked for this SDG. The review was based on QC data.

I. TECHNICAL HOLDING TIME

All holding time requirements were met.

II. INITIAL CALIBRATION

Initial calibrations were performed using required standard concentrations. QC methodology and criteria were applied.

The correlation coefficients were greater than or equal to 0.995.

III. CONTINUING CALIBRATION

Continuing calibrations were run at the required frequency.

The percent difference (%D) between the initial calibration and the continuing calibration were within $\pm$15.0 percent.

IV. BLANKS

The method blank(s) was/were extracted and performed according to the SW846. The blanks were free of contamination.

No field blank was analyzed.

V. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

1 set of matrix spike (MS) and matrix spike duplicate (MSD) was analyzed at required frequencies. Spike recoveries and relative percent difference were within advisory limits.

VI. LABORATORY CONTROL SAMPLES

Laboratory control samples were analyzed and met QC requirements.

VII. PARAMETER IDENTIFICATION

No raw data were reviewed.

VIII. QUANTITATION AND REPORTED CRQLs

No raw data were reviewed.

IX. SYSTEM PERFORMANCE

Not applicable.

X. FIELD DUPLICATES

No field duplicates were analyzed for this SDG.

XI. OVERALL ASSESSMENT OF DATA

Field QC samples were used only to assess blank cross-contamination in the investigative samples.

Data flags have been summarized at the end of the report.

General Inorganic Data Qualification Summary - SDG Nº FD1345

No data were qualified for this SDG.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 HERB													
	SAMPLE ID ------->	003-G-GM06-UF		007-G-GM09-MF		007-G-MW08-LS		2BG-G-MW02-LF		2BG-G-MW02-LS		4BG-G-MW04-LF	
	ORIGINAL ID ----->	003GGM06UF		007GGM09MF		007GMW08LS		2BGGMW02LF		2BGGMW02LS		4BGGMW04LF	
	LAB SAMPLE ID --->	120158		120080		120081		120099		120100		120083	
	SAMPLE DATE ----->	03/20/95		03/16/95		03/16/95		03/17/95		03/17/95		03/16/95	
	DATE EXTRACTED -->	03/31/95		03/28/95		03/28/95		03/28/95		03/28/95		03/28/95	
	DATE ANALYZED --->	04/01/95		03/30/95		03/30/95		03/31/95		03/31/95		03/30/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
94-82-6	2,4-DB	0.47	U	0.47	U	0.47	U	0.47	UJ	0.47	U	0.47	U
88-85-7	Dinoseb	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ
93-76-5	2,4,5-T	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
93-72-1	2,4,5-TP (Silvex)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
75-99-0	Dalapon	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1918-00-9	Dicamba	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
120-36-5	Dichlorprop	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
94-74-6	MCPA	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
93-65-2	MCPP	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
94-75-7	2,4-D	0.47	U	0.47	U	0.47	U	0.47	UJ	0.47	U	0.47	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 HERB													
	SAMPLE ID ------->	4BG-G-MW04-LS		4BG-G-MW04-UF		5BG-G-MW05-LF		5BG-H-MW05-LF		5BG-G-MW05-LS		5BG-G-MW05-UF	
	ORIGINAL ID ----->	4BGGMW04LS		4BGGMW04UF		5BGGMW05LF		5BGHMW05LF		5BGGMW05LS		5BGGMW05UF	
	LAB SAMPLE ID --->	120084		120085		120102		120103		120104		120105	
	SAMPLE DATE ----->	03/16/95		03/16/95		03/17/95		03/17/95		03/17/95		03/17/95	
	DATE EXTRACTED -->	03/28/95		03/28/95		03/28/95		03/28/95		03/28/95		03/28/95	
	DATE ANALYZED --->	03/30/95		03/30/95		03/31/95		03/31/95		03/31/95		03/31/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
94-82-6	2,4-DB	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
88-85-7	Dinoseb	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ
93-76-5	2,4,5-T	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
93-72-1	2,4,5-TP (Silvex)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
75-99-0	Dalapon	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1918-00-9	Dicamba	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
120-36-5	Dichlorprop	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
94-74-6	MCPA	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	U	47.	U
93-65-2	MCPP	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ	47.	UJ
94-75-7	2,4-D	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 Hardness	SAMPLE ID ------->	007-G-MW03-LS					
	ORIGINAL ID ----->	007GMW03LS					
	LAB SAMPLE ID --->	120086					
	SAMPLE DATE ----->	03/15/95					
	DATE EXTRACTED -->	03/26/95					
	DATE ANALYZED --->	04/13/95					
	MATRIX ---------->	Water					
	UNITS ---------->	mg/L A					
CAS #	Parameter						
9999900-03-3	Hardness as CaCO3	328.					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 KJELDAHL	SAMPLE ID ------->	007-G-MW03-LS					
	ORIGINAL ID ----->	007GMW03LS					
	LAB SAMPLE ID --->	120086					
	SAMPLE DATE ----->	03/15/95					
	DATE EXTRACTED -->	03/24/95					
	DATE ANALYZED --->	03/31/95					
	MATRIX ---------->	Water					
	UNITS ---------->	mg/L A					
CAS #	Parameter						
999-99-9	Kjeldahl Nitrogen-N	0.5 U					

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
		SAMPLE ID ------->	003-G-GM06-UF		007-G-GM09-MF		007-G-MW03-LS		007-G-MW03-LS		007-G-MW03-LS		007-G-MW08-LS	
		ORIGINAL ID ----->	003GGM06UF		007GGM09MF		007GMW03LS		007GMW03LS		007GMW03LS		007GMW08LS	
		LAB SAMPLE ID --->	6-120161S		2-120090S		1-120086S		120086		120096S		2-120091S	
		ID FROM REPORT -->	003GGM06UF		007GGM09MF		007GMW03LS		007GMW03LS		007GMW03LS		007GMW08LS	
		SAMPLE DATE ----->	03/20/95		03/16/95		03/16/95		03/15/95		03/15/95		03/16/95	
		DATE EXTRACTED -->							03/26/95					
		DATE ANALYZED --->							03/31/95		03/31/95			
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		UG/L		ug/L		UG/L		UG/L	
CAS #	Parameter		1345	VAL	1345	VAL	1345	VAL	1345	VAL	1345	VAL	1345	VAL
SB	Antimony		40.	U	40.	U	NR		NR		40.	U	40.	U
AS	Arsenic		2.	UJ	2.	U	NR		NR		2.9	J	2.	U
BA	Barium		193.	J	39.8	J	NR		NR		229.	J	53.8	J
BE	Beryllium		1.	U	1.	U	NR		NR		1.	U	1.	U
CD	Cadmium		3.	U	3.	U	NR		NR		3.	U	3.	U
CR	Chromium		5.	U	5.	U	NR		NR		11.8		5.	U
CO	Cobalt		5.	U	5.	U	NR		NR		8.1	J	5.	U
CU	Copper		5.	U	5.	U	NR		NR		19.9	J	5.	U
PB	Lead		5.1	U	2.3	J	NR		NR		8.8		2.	U
HG	Mercury		0.2	U	0.2	U	NR		NR		0.2	U	0.2	U
NI	Nickel		15.	U	15.	U	NR		NR		15.	U	15.	U
SE	Selenium		2.	U	2.	UJ	NR		NR		2.	U	4.7	J
AG	Silver		3.	U	3.	U	NR		NR		3.	U	3.	U
TL	Thallium		2.	UJ	2.	U	NR		NR		2.	UJ	2.	U
V	Vanadium		4.	U	4.	U	NR		NR		24.1	J	4.	U
ZN	Zinc		14.7	J	7.1	U	NR		NR		77.		5.	U
SN	Tin		15.	U	15.	U	NR		NR		15.	U	15.	U
AL	Aluminum		NR		NR		NR		NR		NR		NR	
CA	Calcium		NR		NR		67600.		NR		NR		NR	
FE	Iron		NR		NR		NR		17900.		NR		NR	
MG	Magnesium		NR		NR		38800.		NR		NR		NR	
MN	Manganese		NR		NR		NR		652.		NR		NR	
NA	Sodium		NR		NR		NR		NR		NR		NR	
K	Potassium		NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
	SAMPLE ID ------->	2BG-G-MW02-LF		2BG-G-MW02-LS		4BG-G-MW04-LF		4BG-G-MW04-LS		4BG-G-MW04-UF		5BG-G-MW05-LF	
	ORIGINAL ID ----->	2BGGMW02LF		2BGGMW02LS		4BGGMW04LF		4BGGMW04LS		4BGGMW04UF		5BGGMW05LF	
	LAB SAMPLE ID --->	4-120108S		4-120109S		2-120093S		2-120094S		2-120095S		4-120111S	
	ID FROM REPORT -->	2BGGMW02LF		2BGGMW02LS		4BGGMW04LF		4BGGMW04LS		4BGGGMW04UF		5BGGMW05LF	
	SAMPLE DATE ----->	03/17/95		03/17/95		03/16/95		03/16/95		03/16/95		03/17/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	1345	VAL	1345	VAL	1345	VAL	1345	VAL	1345	VAL	1345	VAL
SB	Antimony	40.	U	40.	U	40.	U	40.	U	40.	U	40.	U
AS	Arsenic	2.	UJ	9.3	J	2.	U	4.	J	2.	U	2.	U
BA	Barium	155.	J	556.	J	143.	J	186.	J	111.	J	46.7	J
BE	Beryllium	1.	U	1.7	J	1.	U	1.	U	1.	U	1.	U
CD	Cadmium	3.	U	5.	U	3.	U	3.	U	3.	U	3.	U
CR	Chromium	5.	U	167.		5.	U	213.		5.	U	5.	U
CO	Cobalt	7.6	J	16.5	J	5.	U	9.6	J	5.	U	5.2	J
CU	Copper	5.	U	45.8		5.	U	21.4	J	5.	U	5.	U
PB	Lead	2.	UJ	33.6		2.1	J	6.6	J	2.	J	2.	UJ
HG	Mercury	0.21		0.26		0.2	U	0.2	U	0.32		0.2	U
NI	Nickel	15.	U	143.		15.	U	165.		15.	U	15.	U
SE	Selenium	2.	UJ	3.2	J	2.	U	2.	U	2.	UJ	2.	UJ
AG	Silver	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
TL	Thallium	2.	U	2.	U	2.	U	2.	UJ	2.	U	2.	U
V	Vanadium	4.	U	51.		4.	U	26.9	J	4.	U	4.	U
ZN	Zinc	11.2	U	179.		5.	U	202.		5.4	U	5.1	U
SN	Tin	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		NR		NR		NR	
FE	Iron	NR		NR		NR		NR		NR		NR	
MG	Magnesium	NR		NR		NR		NR		NR		NR	
MN	Manganese	NR		NR		NR		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
		SAMPLE ID ------->	5BG-H-MW05-LF		5BG-G-MW05-LS		5BG-G-MW05-UF						
		ORIGINAL ID ----->	5BGHMW05LF		5BGGMW05LS		5BGGMW05UF						
		LAB SAMPLE ID --->	4-120112S		4-120113S		4-120114S						
		ID FROM REPORT -->	5BGHMW05LF		5BGGMW05LS		5BGGMW05UF						
		SAMPLE DATE ----->	03/17/95		03/17/95		03/17/95						
		MATRIX ---------->	Water		Water		Water						
		UNITS ---------->	UG/L		UG/L		UG/L						
CAS #	Parameter		1345	VAL	1345	VAL	1345	VAL					
SB	Antimony		40.	U	40.5	J	40.	U					
AS	Arsenic		2.	U	6.	J	2.	U					
BA	Barium		46.7	J	215.	J	50.3	J					
BE	Beryllium		1.	U	1.	U	1.	U					
CD	Cadmium		3.	U	3.	U	3.	U					
CR	Chromium		5.	U	160.		6.2	J					
CO	Cobalt		5.2	J	9.3	J	5.	U					
CU	Copper		5.	U	17.9	J	5.	U					
PB	Lead		2.	UJ	8.1		4.2	J					
HG	Mercury		0.2	U	0.2	U	0.2	U					
NI	Nickel		15.	U	114.		15.	U					
SE	Selenium		2.	U	2.7	J	2.	UJ					
AG	Silver		3.	U	3.	U	3.	U					
TL	Thallium		2.	U	2.	U	2.	U					
V	Vanadium		4.	U	23.9	J	14.7	J					
ZN	Zinc		5.	U	63.8		9.5	J					
SN	Tin		15.	U	15.	U	15.	U					
AL	Aluminum		NR		NR		NR						
CA	Calcium		NR		NR		NR						
FE	Iron		NR		NR		NR						
MG	Magnesium		NR		NR		NR						
MN	Manganese		NR		NR		NR						
NA	Sodium		NR		NR		NR						
K	Potassium		NR		NR		NR						

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 METAL-CN						
SAMPLE ID ------->	003-G-GM06-UF	007-G-GM09-MF	007-G-MW01-LS	007-G-MW08-LS	2BG-G-MW02-LF	2BG-G-MW02-LS
ORIGINAL ID ----->	003GGM06UF	007GGM09MF	007GMW01LS	007GMW08LS	2BGGMW02LF	2BGGMW02LS
LAB SAMPLE ID --->	120158	120080	120087	120081	120099	120100
SAMPLE DATE ----->	03/20/95	03/16/95	03/15/95	03/16/95	03/17/95	03/17/95
DATE EXTRACTED -->	03/27/95	03/20/95	03/20/95	03/20/95	03/20/95	03/20/95
DATE ANALYZED --->	03/29/95	03/21/95	03/21/95	03/21/95	03/22/95	03/22/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 METAL-CN						
SAMPLE ID ------->	4BG-G-MW04-LF	4BG-G-MW04-LS	4BG-G-MW04-UF	5BG-G-MW05-LF	5BG-H-MW05-LF	5BG-G-MW05-LS
ORIGINAL ID ----->	4BGGMW04LF	4BGGMW04LS	4BGGMW04UF	5BGGMW05LF	5BGHMW05LF	5BGGMW05LS
LAB SAMPLE ID --->	120083	120084	120085	120102	120103	120104
SAMPLE DATE ----->	03/16/95	03/16/95	03/16/95	03/17/95	03/17/95	03/17/95
DATE EXTRACTED -->	03/20/95	03/20/95	03/20/95	03/20/95	03/20/95	03/20/95
DATE ANALYZED --->	03/21/95	03/21/95	03/21/95	03/22/95	03/22/95	03/22/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 METAL-CN	SAMPLE ID ------->	5BG-G-MW05-UF					
	ORIGINAL ID ----->	5BGGMW05UF					
	LAB SAMPLE ID --->	120105					
	SAMPLE DATE ----->	03/17/95					
	DATE EXTRACTED -->	03/20/95					
	DATE ANALYZED --->	03/22/95					
	MATRIX ---------->	Water					
	UNITS ---------->	mg/L A					
CAS #	Parameter						
CN	Cyanide	0.01 U					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 OP PEST													
	SAMPLE ID ------->	003-G-GM06-UF		007-G-GM09-MF		007-G-MW08-LS		2BG-G-MW02-LF		2BG-G-MW02-LS		4BG-G-MW04-LF	
	ORIGINAL ID ----->	003GGM06UF		007GGM09MF		007GMW08LS		2BGGMW02LF		2BGGMW02LS		4BGGMW04LF	
	LAB SAMPLE ID --->	120158		120080		120081		120099		120100		120083	
	SAMPLE DATE ----->	03/20/95		03/16/95		03/16/95		03/17/95		03/17/95		03/16/95	
	DATE EXTRACTED -->	03/30/95		03/30/95		04/10/95		03/30/95		03/30/95		03/30/95	
	DATE ANALYZED --->	04/01/95		03/31/95		04/10/95		04/01/95		04/01/95		03/31/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	0.46	UJ	5.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	0.67	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	UJ	2.5	U	2.5	UJ	1.5	UJ	2.5	UJ	2.5	U
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	UJ	2.5	UJ	2.5	UJ	0.92	UJ	2.5	UJ	2.5	UJ
333-41-5	Diazinon	2.5	UJ	2.5	U	2.5	UJ	1.2	UJ	2.5	UJ	2.5	U
62-73-7	Dichlorvos	2.5	UJ	2.5	UJ	2.5	UJ	4.4	UJ	2.5	UJ	2.5	UJ
298-04-4	Disulfoton	2.5	UJ	2.5	U	2.5	UJ	0.93	UJ	2.5	UJ	2.5	U
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	0.83	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	1.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	UJ	2.5	U	2.5	UJ	0.97	UJ	2.5	UJ	2.5	U
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	3.1	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	3.9	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UR	2.5	UJ	2.5	UJ	1.	UR	2.5	UR	2.5	UJ
298-00-0	Methyl parathion	2.5	UJ	2.5	UJ	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ
298-02-2	Phorate	2.5	UJ	2.5	U	2.5	UJ	1.1	UJ	2.5	UJ	2.5	U
299-84-3	Ronnel	2.5	UJ	2.5	UJ	2.5	UJ	1.1	UJ	2.5	UJ	2.5	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5		2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	0.73	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	UJ	0.64	UJ	2.5	UJ	2.5	UJ
126-75-0	Demeton,S	2.5	UJ	2.5	U	2.5	UJ	1.1	UJ	2.5	UJ	2.5	U

*** Validation Complete ***

1345 OP PEST	SAMPLE ID ------->	4BG-G-MW04-LS		4BG-G-MW04-UF		5BG-G-MW05-LF		5BG-H-MW05-LF		5BG-G-MW05-LS		5BG-G-MW05-UF	
	ORIGINAL ID ----->	4BGGMW04LS		4BGGMW04UF		5BGGMW05LF		5BGHMW05LF		5BGGMW05LS		5BGGMW05UF	
	LAB SAMPLE ID --->	120084		120085		120102		120103		120104		120105	
	SAMPLE DATE ----->	03/16/95		03/16/95		03/17/95		03/17/95		03/17/95		03/17/95	
	DATE EXTRACTED -->	03/30/95		03/30/95		03/30/95		03/30/95		03/30/95		03/30/95	
	DATE ANALYZED --->	03/31/95		03/31/95		04/01/95		04/01/95		04/01/95		04/01/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
333-41-5	Diazinon	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
62-73-7	Dichlorvos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-04-4	Disulfoton	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	2.5	UJ	2.5	UR	2.5	UR	2.5	UR	2.5	UR
298-00-0	Methyl parathion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-02-2	Phorate	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
299-84-3	Ronnel	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	UJ	2.5	UJ	2.5		2.5		2.5		2.5	
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
126-75-0	Demeton,S	2.5	U	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1345 PEST	SAMPLE ID ------->	003-G-GM06-UF		007-G-GM09-MF		007-G-MW08-LS		2BG-G-MW02-LF		2BG-G-MW02-LS		4BG-G-MW04-LF	
	ORIGINAL ID ----->	003GGM06UF		007GGM09MF		007GMW08LS		2BGGMW02LF		2BGGMW02LS		4BGGMW04LF	
	LAB SAMPLE ID --->	120161		120090		120091		120108		120109		120093	
	SAMPLE DATE ----->	03/20/95		03/16/95		03/16/95		03/17/95		03/17/95		03/16/95	
	DATE EXTRACTED -->	03/23/95		03/21/95		03/21/95		03/23/95		03/23/95		03/21/95	
	DATE ANALYZED --->	03/31/95		03/29/95		03/29/95		03/31/95		03/31/95		03/29/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
319-84-6	alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
959-98-8	Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-54-8	4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
50-29-3	4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-43-5	Methoxychlor	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
53494-70-5	Endrin ketone	0.1	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7421-36-3	Endrin aldehyde	0.1	UJ	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 PEST													
	SAMPLE ID ------->	4BG-G-MW04-LS		4BG-G-MW04-UF		5BG-G-MW05-LF		5BG-H-MW05-LF		5BG-G-MW05-LS		5BG-G-MW05-UF	
	ORIGINAL ID ----->	4BGGMW04LS		4BGGMW04UF		5BGGMW05LF		5BGHMW05LF		5BGGMW05LS		5BGGMW05UF	
	LAB SAMPLE ID --->	120094		120095		120111		120112		120113		120114	
	SAMPLE DATE ----->	03/16/95		03/16/95		03/17/95		03/17/95		03/17/95		03/17/95	
	DATE EXTRACTED -->	03/21/95		03/21/95		03/23/95		03/23/95		03/23/95		03/23/95	
	DATE ANALYZED --->	03/29/95		03/29/95		03/31/95		03/31/95		03/31/95		03/31/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
319-84-6	alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
959-98-8	Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.2		0.1	U
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-54-8	4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
50-29-3	4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-43-5	Methoxychlor	0.5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
7421-36-3	Endrin aldehyde	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ	0.1	UJ
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1345 SVOA																			
	SAMPLE ID ------->	003-G-GM06-UF		007-G-GM09-MF		007-G-MW08-LS		2BG-G-MW02-LF		2BG-G-MW02-LS		4BG-G-MW04-LF	
	ORIGINAL ID ----->	003GGM06UF		007GGM09MF		007GMW08LS		2BGGMW02LF		2BGGMW02LS		4BGGMW04LF	
	LAB SAMPLE ID --->	120161		120090		120091		120108		120109		120093	
	SAMPLE DATE ----->	03/20/95		03/16/95		03/16/95		03/17/95		03/17/95		03/16/95	
	DATE EXTRACTED -->	03/27/95		03/23/95		03/22/95		03/23/95		03/23/95		03/22/95	
	DATE ANALYZED --->	04/04/95		03/29/95		03/29/95		03/29/95		03/29/95		03/29/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	UR	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	UR	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	UR	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	UR	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	UR	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	UR	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UR	25.	UJ	25.	UJ
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UR	25.	UJ	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	U	25.	UR	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	U	25.	UJ	25.	UJ	25.	UR	25.	UJ	25.	UJ
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 SVOA																			
	SAMPLE ID ------->	003-G-GM06-UF			007-G-GM09-MF			007-G-MW08-LS			2BG-G-MW02-LF			2BG-G-MW02-LS			4BG-G-MW04-LF		
	ORIGINAL ID ----->	003GGM06UF			007GGM09MF			007GMW08LS			2BGGMW02LF			2BGGMW02LS			4BGGMW04LF		
	LAB SAMPLE ID --->	120161			120090			120091			120108			120109			120093		
	SAMPLE DATE ----->	03/20/95			03/16/95			03/16/95			03/17/95			03/17/95			03/16/95		
	DATE EXTRACTED -->	03/27/95			03/23/95			03/22/95			03/23/95			03/23/95			03/22/95		
	DATE ANALYZED --->	04/04/95			03/29/95			03/29/95			03/29/95			03/29/95			03/29/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A
CAS #	Parameter																		
120-12-7	Anthracene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
86-74-8	Carbazole	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
84-74-2	Di-n-butylphthalate	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
206-44-0	Fluoranthene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
129-00-0	Pyrene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
85-68-7	Butylbenzylphthalate	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
91-94-1	3,3'-Dichlorobenzidine	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
56-55-3	Benzo(a)anthracene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
218-01-9	Chrysene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	5.	J		10.	U		10.	U		10.	U		10.	U		10.	U	
117-84-0	Di-n-octylphthalate	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
205-99-2	Benzo(b)fluoranthene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
207-08-9	Benzo(k)fluoranthene	10.	UJ		10.	UJ		10.	UJ		10.	UJ		10.	UJ		10.	UJ	
50-32-8	Benzo(a)pyrene	10.	U		10.	UJ		10.	UJ		10.	UJ		10.	UJ		10.	UJ	
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
53-70-3	Dibenzo(a,h)anthracene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
191-24-2	Benzo(g,h,i)perylene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
108-95-2	Phenol	10.	U		10.	U		10.	U		10.	UR		10.	U		10.	U	
111-44-4	bis(2-Chloroethyl)ether	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
95-57-8	2-Chlorophenol	10.	U		10.	U		10.	U		10.	UR		10.	U		10.	U	
541-73-1	1,3-Dichlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
106-46-7	1,4-Dichlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
95-50-1	1,2-Dichlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
95-48-7	2-Methylphenol (o-Cresol)	10.	U		10.	U		10.	U		10.	UR		10.	U		10.	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ		10.	U		10.	U		10.	U		10.	U		10.	U	
106-44-5	4-Methylphenol (p-Cresol)	10.	U		10.	U		10.	U		10.	UR		10.	U		10.	U	
98-95-3	Nitrobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 SVOA													
	SAMPLE ID ------->	4BG-G-MW04-LS		4BG-G-MW04-UF		5BG-G-MW05-LF		5BG-H-MW05-LF		5BG-G-MW05-LS		5BG-G-MW05-UF	
	ORIGINAL ID ----->	4BGGMW04LS		4BGGMW04UF		5BGGMW05LF		5BGHMW05LF		5BGGMW05LS		5BGGMW05UF	
	LAB SAMPLE ID --->	120094		120095		120111		120112		120113		120114	
	SAMPLE DATE ----->	03/16/95		03/16/95		03/17/95		03/17/95		03/17/95		03/17/95	
	DATE EXTRACTED -->	03/22/95		03/22/95		03/23/95		03/23/95		03/23/95		03/24/95	
	DATE ANALYZED --->	03/29/95		03/29/95		03/29/95		03/29/95		03/30/95		03/30/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1345 SVOA													
	SAMPLE ID ------->	4BG-G-MW04-LS		4BG-G-MW04-UF		5BG-G-MW05-LF		5BG-H-MW05-LF		5BG-G-MW05-LS		5BG-G-MW05-UF	
	ORIGINAL ID ----->	4BGGMW04LS		4BGGMW04UF		5BGGMW05LF		5BGHMW05LF		5BGGMW05LS		5BGGMW05UF	
	LAB SAMPLE ID --->	120094		120095		120111		120112		120113		120114	
	SAMPLE DATE ----->	03/16/95		03/16/95		03/17/95		03/17/95		03/17/95		03/17/95	
	DATE EXTRACTED -->	03/22/95		03/22/95		03/23/95		03/23/95		03/23/95		03/24/95	
	DATE ANALYZED --->	03/29/95		03/29/95		03/29/95		03/29/95		03/30/95		03/30/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
50-32-8	Benzo(a)pyrene	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ	10.	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 TOTAL PHOS	SAMPLE ID ------->	007-G-MW03-LS					
	ORIGINAL ID ----->	007GMW03LS					
	LAB SAMPLE ID --->	120086					
	SAMPLE DATE ----->	03/15/95					
	DATE EXTRACTED -->	03/22/95					
	DATE ANALYZED --->	03/22/95					
	MATRIX ---------->	Water					
	UNITS ---------->	mg/L A					
CAS #	Parameter						
9999900-03-5	Phosphorus Total	0.02 U					

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1345 TPH						
SAMPLE ID ------->	003-G-GM06-UF	007-G-GM09-MF	007-G-MW08-LS	2BG-G-MW02-LF	2BG-G-MW02-LS	4BG-G-MW04-LF
ORIGINAL ID ----->	003GGM06UF	007GGM09MF	007GMW08LS	2BGGMW02LF	2BGGMW02LS	4BGGMW04LF
LAB SAMPLE ID --->	120158	120080	120081	120099	120100	120083
SAMPLE DATE ----->	03/20/95	03/16/95	03/16/95	03/17/95	03/17/95	03/16/95
DATE EXTRACTED -->	04/11/95	04/07/95	04/07/95	04/07/95	04/07/95	04/07/95
DATE ANALYZED --->	04/12/95	04/10/95	04/10/95	04/10/95	04/10/95	04/10/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	23.4 U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1345 TPH						
SAMPLE ID ------->	4BG-G-MW04-LS	4BG-G-MW04-UF	5BG-G-MW05-LF	5BG-H-MW05-LF	5BG-G-MW05-LS	5BG-G-MW05-UF
ORIGINAL ID ----->	4BGGMW04LS	4BGGMW04UF	5BGGMW05LF	5BGHMW05LF	5BGGMW05LS	5BGGMW05UF
LAB SAMPLE ID --->	120084	120085	120102	120103	120104	120105
SAMPLE DATE ----->	03/16/95	03/16/95	03/17/95	03/17/95	03/17/95	03/17/95
DATE EXTRACTED -->	04/07/95	04/07/95	04/10/95	04/10/95	04/10/95	04/10/95
DATE ANALYZED --->	04/10/95	04/10/95	04/12/95	04/12/95	04/12/95	04/12/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1345 VOA													
	SAMPLE ID ------->	003-G-GM06-UF		007-G-GM09-MF		007-G-MW01-LS		007-G-MW08-LS		2BG-G-MW02-LF		2BG-G-MW02-LS	
	ORIGINAL ID ----->	003GGM06UF		007GGM09MF		007GMW01LS		007GMW08LS		2BGGMW02LF		2BGGMW02LS	
	LAB SAMPLE ID --->	120161		120090		120089		120091		120108		120109	
	SAMPLE DATE ----->	03/20/95		03/16/95		03/16/95		03/16/95		03/17/95		03/17/95	
	DATE ANALYZED --->	03/27/95		03/25/95		03/25/95		03/25/95		03/26/95		03/26/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	38.	J	10.	U	10.	U	10.	U	10.	U	17.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	46.		10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	19.		10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	3.	J	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	4.	J	9.	J	10.	U	10.	UJ	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	1.	J	7.	J	10.	U	10.	UJ	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	UJ	25.	J	10.	UJ	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	1.	J	10.	U	10.	U	10.	UJ	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 VOA	SAMPLE ID ------->	4BG-G-MW04-LF		4BG-G-MW04-LS		4BG-G-MW04-UF		5BG-G-MW05-LF		5BG-H-MW05-LF		5BG-G-MW05-LS	
	ORIGINAL ID ----->	4BGGMW04LF		4BGGMW04LS		4BGGMW04UF		5BGGMW05LF		5BGHMW05LF		5BGGMW05LS	
	LAB SAMPLE ID --->	120093		120094		120095		120111		120112		120113	
	SAMPLE DATE ----->	03/16/95		03/16/95		03/16/95		03/17/95		03/17/95		03/17/95	
	DATE ANALYZED --->	03/24/95		03/24/95		03/24/95		03/26/95		03/26/95		03/26/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	24.		22.		10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1345 VOA			
SAMPLE ID ------->	5BG-G-MW05-UF		
ORIGINAL ID ----->	5BGGMW05UF		
LAB SAMPLE ID --->	120114		
SAMPLE DATE ----->	03/17/95		
DATE ANALYZED --->	03/26/95		
MATRIX ---------->	Water		
UNITS ---------->	UG/L	A	

CAS #	Parameter		
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 (MEK)	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 (MIBK)	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	17.	
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

*** Validation Complete ***

VALIDATA

Chemical Services, Inc.

P. O. Box 930422 Norcross, Ga 30093

DATA VALIDATION SUMMARY REPORT

COMPANY:	Ensafe/Allen & Hoshall
SITE NAME:	NAS Memphis
PROJECT NUMBER:	8500.024
CONTRACTED LAB:	National Environmental Testing, Inc.
QA/QC LEVEL:	Level III
EPA SOW/METHOD:	EPA 1990 SOW
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 1994; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* 1994
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organics (VOA), Semivolatile Organics (SVOA), Pesticides/PCB's (P/PCB), Total Metals and Cyanide (Me/CN), Total Petroleum Hydrocarbons (TPH), Herbicides (HERB), Organophosphorus Pesticides (OPPE), Alkalinity (ALK), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen (TKN), Total Phosphorus (P), Nitrate (N), Hardness (HD), Total Suspended Solids (TSS), Turbidity (TB)
SDG NUMBER:	1347

SAMPLES:

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOA	P/PCB	HERB	TPH
003GGM01LS	120411/05	Water	X	X	X	X	X
003GGM07UF	120287/79	Water	X	X	X	X	X
003GGM08LS	120412/06	Water	X	X	X	X	X
003GMW03LS	120288/80	Water	X	X	X	X	X
003GMW03MF	120413/03	Water	X	X	X	X	X
003HMW03MF	120414/07	Water	X	X	X	X	X
003GMW03MFDL	120413DL	Water	X				
003HMW03MFDL	120414DL	Water	X				
003GMW03MFRE	120413RE	Water		X			
003HMW03MFRE	120414RE	Water		X			
003GMW04LF	120289/82	Water	X	X	X	X	X

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOC	P/PCB	HERB	TPH
003GMW04LFRE	120289RE	Water		X			
003GMW04LS	120290/83	Water	X	X	X	X	X
003GMW04LSRE	120290RE	Water		X			
003GMW05MF	120415/08	Water	X	X	X	X	X
003GMW05MFRE	120415RE	Water		X			
007GMW03LS	120193/73	Water		X	X	X	X
007GMW01LS	120284	Water				X	X
008GMW001F	120416/04	Water	X	X	X	X	X
008GMW002F	120417/09	Water	X	X	X	X	X
008GMW002FRE	120417RE	Water		X			
1BGGMW01LF	120189/76	Water	X	X	X	X	X
1BGGMW01LFRE	120189RE	Water		X			
1BGHMW01LF	120190/77	Water	X	X	X	X	X
1BGHMW01LFRE	120190RE	Water		X			
1BGGMW01LS	120291/81	Water	X	X	X	X	X
1BGGMW01UF	120191/78	Water	X	X	X	X	X
2BGGMW02UF	120192/79	Water	X	X	X	X	X
1BGT032095	120186	Water	X				
1BGF032095	120188	Water	X	X	X	X	
003T032195	120286	Water	X				
003T032295	120410	Water	X				

H = FIELD DUPLICATE, RE = REANALYSIS, DL = DILUTION, T = TRIP BLANK,
F = FIELD BLANK (1BGF032095)

Client Sample #:	Lab Sample #:	Matrix	TB	TSS	N	P	TKN
003GMW03MF	120403	Water	X	X	X	X	X
003GMW04LF	120282	Water	X	X	X	X	X
003GMW04LS	120283	Water	X	X	X	X	X
008GMW001F	120404	Water	X	X	X	X	X

Client Sample #:	Lab Sample #:	Matrix	ALK	BOD	COD
003GMW03MF	120403	Water	X	X	X
003GMW04LF	120282	Water	X	X	X
003GMW04LS	120283	Water	X	X	X
008GMW001F	120404	Water	X	X	X

Client Sample #:	Lab Sample #:	Matrix	Me/CN	HD	OPPE
003GGM01LS	120405/11	Water	X		X
003GGM01LSMS	120411MS	Water	X		
003GGM07UF	120279/87	Water	X		X
003GGM08LS	120406/12	Water	X		X
003GGM08LSD	120412MD	Water	X		

Client Sample #:	Lab Sample #:	Matrix	Me/CN	HD	OPPE
003GMW03LS	120280/88	Water	X		X
003GMW03MF	120403*	Water	X	X	X
003GMW03MF	120413	Water	X		
003HMW03MF	120407/14	Water	X		X
003GMW04LF	120282*	Water	X	X	X
003GMW04LF	120289	Water	X		
003GMW04LS	120283*	Water	X	X	X
003GMW04LS	120290	Water	X		
003GMW05MF	120408/15	Water	X		X
007GMW01LS	120292	Water	X		
007GMW03LS	120173	Water			X
008GMW001F	120404	Water	X	X	X
008GMW001F	120416	Water	X		
008GMW002F	120409/17	Water	X		X
1BGGMW01LF	120176/89	Water	X		X
1BGHMW01LF	120177/90	Water	X		X
1BGGMW01LS	120281/91	Water	X		X
1BGGMW01UF	120178/91	Water	X		X
2BGGMW02UF	120179/92	Water	X		X
1BGF032095	120188	Water	X		X

H = FIELD DUPLICATE, MS = MATRIX SPIKE, MD = MATRIX DUPLICATE

DATA REVIEWER(S): Amy L. Hogan, Marvin L. Smith

RELEASE SIGNATURE: Kevin C. Hannon

Data Qualifier Definitions:

J	-	The associated numerical value is an estimated quantity.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1347 Organics and Inorganics

SAMPLES: 003GGM01LS, 003GGM07UF, 003GGM08LS, 003GMW03LS, 003GMW03MF, 003GMW03MFDL, 003GMW03MFRE, 003HMW03MF, 003HMW03MFDL, 003HMW03MFRE, 003GMW04LF, 003GMW04LFRE, 003GMW04LS, 003GMW04LSRE, 003GMW05MF, 003GMW05MFRE, 008GMW001F, 008GMW002F, 008GMW002FRE, 007GMW03LS, 007GMW01LS, 1BGGMW01LF, 1BGGMW01LFRE, 1BGHMW01LF, 1BGHMW01LFRE, 1BGGMW01LS, 1BGGMW01UF, 2BGGMW02UF, 003GMW01LSMS, 003GMW08LSD, 1BGT032095, 1BGF032095, 003T032195, 003T032295

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviations (%RSD's) of the following compounds exceeded the 30% QC limit for the initial calibration run on 3/23/95 on instrument HP5970H:

acetone	35.5%
2-butanone	42.0%

The positive results for acetone in the associated samples (all samples for this SDG) were flagged as estimated (J). There were no positive results for 2-butanone in the associated samples. No further action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 3/26/95 at 08:30 on instrument HP5970H:

chloromethane	46.7%
bromomethane	31.6%
vinyl chloride	30.3%
2-hexanone	27.3%

The results for these compounds in associated samples 003GGM01LS, 003GGM08LS, 003GMW03MF, 003HMW03MF, 003GMW05MF, 008GMW001F and 008GMW002F, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D'S) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 3/27/95 at 12:14 on instrument HP5970K:

chloromethane	38.8%
vinyl chloride	28.6%
acetone	30.3%
2-butanone	34.4%
4-methyl-2-pentanone	37.1%
2-hexanone	40.7%

The positive and non-detect results for these compounds in associated samples 1BGGMW01LF, 1BGHMW01LF, 1BGGMW01UF and 2BGGMW02UF were flagged as estimated (J) and (UJ).

IV.) Blanks:

Method Blanks:

Acetone was detected at 9.0 ug/L in water method blank VBLK032695H. The positive results for this compound in associated samples 003GGM01LS, 003GGM08LS, 003GMW03MF, 003GMW05MF, 003HMW03MF, 008GMW001F and 008GMW002F less than 10X the blank were flagged as undetected (U) with the detection limit being raised to the level of contamination in each sample.

Methylene chloride was detected at 2.0 ug/L in water method blank VBLK032795K. There were no positive results for this compound in the associated samples. No action was required.

Methylene chloride was detected at 1.0 ug/L in water method blank VBLK033095K. There were no positive results for this compound in the associated samples. No action was required.

Trip Blanks and Equipment Blanks:

Acetone was detected at 6 ug/L in trip blank 003T032295. The associated samples were previously qualified using the method blank. No further action was required.

Acetone, 2-butanone and chlorobenzene were detected at 7 ug/L, 17 ug/L and 1 ug/L, respectively, in field blank 1BGF032095. The associated positive detections of acetone below 10X the blank contamination were flagged as undetected (U) with the detection limit being raised to the level of contamination in each sample. There were no associated positive sample results for the other compounds, so no further action was required. The associated samples were 1BGGMW01LS, 1BGHMW01LF and 1BGGMW01LF.

TIC's:

There were no TIC's reported in the method blanks for this SDG.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There were no MS / MSD analyses requested for this SDG. No action was required.

VII.) Field Duplicates:

The Relative Percent Differences (RPD's) of ethylbenzene (67%) and xylene (44%) exceeded the 30% QC limit for field duplicate samples 003GMW03MF and 003HMW03MF. The results for these compounds in the two samples were flagged as estimated (J).

The RPD of acetone (9.5%) was within the 30% QC limit for field duplicate samples 1BGGMW01LF and 1BGHMW01LF. No action was required.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

All remaining laboratory data were acceptable with qualification.

SEMIVOLATILE ORGANICS

I.) Holding Times:

The number of days between sample date and extraction date exceeded the 14 day QC limit for the following samples:

003GGM07UF	20
003GMW03MFRE	29
003HMW03MFRE	29
003GMW04LFRE	30
003GMW04LSRE	30
003GMW05MFRE	29
008GMW002FRE	29
1BGGMW01LFRE	31
1BGHMW01LFRE	31

The results for sample 003GGM07UF, which consisted entirely of non-detects, were flagged as estimated (UJ). The results for the other samples were rejected (R) since the number of days exceeded the QC limit by more than 2X.

II.) GC/MS Tuning:

All GC/MS Tuning criteria were met, so no action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) of hexachlorocyclopentadiene (43.7%) exceeded the 30% QC limit for the initial calibration run on 2/21/95 on instrument HP5970F. There were no positive results for this compound in the associated samples. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/10/95 at 17:01 on instrument HP5970F:

2,2'-oxybis(1-chloropropane)	28.2%
4-chloroaniline	70.1%
2-methylnaphthalene	38.4%
4-nitrophenol	29.0%
n-nitrosodiphenylamine	74.6%

All results for these compounds in associated samples 1BGGMW01LF, 1BGHMW01LF, 1BGGMW01UF, 2BGGMW02UF, 007GMW03LS, 003GMW03LS, 003GMW04LF, 003GMW04LS, 1BGGMW01LS, 003GGM01LS, 003GMW08LS, 003HMW03MF, 003GMW05MF and 008GMW001F, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/12/95 at 11:05 on instrument HP5970F:

2,2'-oxybis(1-chloropropane)	30.5%
n-nitroso-di-n-propylamine	25.3%
2,4-dimethylphenol	25.0%
4-chloroaniline	71.4%
2-nitroaniline	32.7%
4-nitrophenol	37.7%
n-nitrosodiphenylamine	75.9%

The results for these compounds in associated samples 008GMW002F and 003GMW03MF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Difference (%D) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/20/95 at 15:36 on instrument HP5970F:

2,4-dinitrophenol	26.1%
4-nitrophenol	26.1%

The results for these compounds in associated sample 003GGM07UF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/26/95 at 11:09 on instrument HP5970J:

bis (2-chloroethyl)ether	25.9%
2,2'-oxybis(1-chloropropane)	67.4%
2,6-dinitrotoluene	29.4%
3-nitroaniline	25.8%
4-nitrophenol	28.6%
2,4-dinitrotoluene	32.0%
4-nitroaniline	25.2%

The results for these compounds in the associated samples were previously rejected based on holding times. No further action was necessary.

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/24/95 at 13:57 on instrument HP5970J:

2,2'-oxybis(1-chloropropane)	50.4%
2,4-dinitrophenol	26.1%
4-nitrophenol	36.6%
4,6-dinitro-2-methylphenol	43.2%

The results for these compounds in the associated samples were previously rejected based on holding times. No further action was required.

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

The Percent Recoveries (%R's) of 2-fluorophenol (6%) and 2-chlorophenol (14%) were below their respective 21-110% and 33-110% QC limits in sample 003GMW03MFRE. All results for this sample were previously rejected. No further action was necessary.

The Percent Recoveries (%R's) of the following compounds were below their respective QC limits for sample 003GMW03MF:

Compound	%R	QC limits
2-fluorophenol	9	21-110
2,4,6-tribromophenol	7	10-123
2-chlorophenol	20	33-110

Since the %R's of two surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely on non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their respective QC limits for sample 003GMW04LF:

Compound	%R	QC limits
2-fluorophenol	8	21-110
2,4,6-tribromophenol	9	10-123
2-chlorophenol	20	33-110

Since the %R's of two surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 003GMW04LFRE:

Compound	%R	QC limits
2-fluorophenol	3	21-110
2,4,6-tribromophenol	5	10-123
2-chlorophenol	11	33-110

Since the %R's of two surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their respective QC limits for sample 003GMW04LS:

Compound	%R	QC limits
2-fluorophenol	5	21-110
2,4,6-tribromophenol	6	10-123
2-chlorophenol	21	33-110

Since the %R of two of the surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, were rejected (R). The reanalysis passed all Surrogate Recovery criteria.

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 003GMW05MF:

Compound	%R	QC limits
2-fluorophenol	1	21-110
2,4,6-tribromophenol	0	10-123
2-chlorophenol	6	33-110

Since the %R of three surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 003GMW05MFRE:

Compound	%R	QC limits
2-fluorophenol	1	21-110
2,4,6-tribromophenol	3	10-123
2-chlorophenol	6	33-110

Since the %R's of three surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, would have been rejected (R). All results for this sample were previously rejected due to holding time exceedance. No further action was required.

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 003HMW03MF:

Compound	%R	QC limits
2-fluorophenol	7	21-110
2,4,6-tribromophenol	4	10-123
2-chlorophenol	17	33-110

Since the %R's of two surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 003HMW03MFRE:

Compound	%R	QC limits
2-fluorophenol	1	21-110
2,4,6-tribromophenol	2	10-123
2-chlorophenol	4	33-110

Since the %R's of three surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, would have been rejected (R). All results for this sample were previously rejected due to holding time exceedance. No further action was required.

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 008GMW002F:

Compound	%R	QC limits
2-fluorophenol	9	21-110
2,4,6-tribromophenol	3	10-123
2-chlorophenol	22	33-110

Since the %R's of two surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 008GMW002FRE:

Compound	%R	QC limits
2-fluorophenol	1	21-110
2,4,6-tribromophenol	4	10-123
2-chlorophenol	6	33-110

Since the %R's of three surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, would have been rejected (R). All results for this sample were previously rejected due to holding time exceedance. No further action was required.

The Percent Recovery (R) of terphenyl-d14 (20%) was below the 33-141% QC limits for sample 007GMW03LS. Since only one surrogate failed, no action was required.

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 1BGGMW01LF:

Compound	%R	QC limits
2-fluorophenol	3	21-110
2,4,6-tribromophenol	0	10-123
2-chlorophenol	11	33-110

Since the %R of three surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 1BGGMW01LFRE:

Compound	%R	QC limits
2-fluorophenol	4	21-110
2,4,6-tribromophenol	8	10-123
2-chlorophenol	18	33-110

Since the %R's of two surrogates were less than 10%, the acid fraction results for this sample, which consisted entirely of non-detects, would have been rejected (R). All results for this sample were previously rejected due to holding time exceedance. No further action was required.

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 1BGHMW01LF:

Compound	%R	QC limits
2-fluorophenol	2	21-110
2,4,6-tribromophenol	3	10-123
2-chlorophenol	9	33-110

Since the %R's of three surrogates were less than 10%, the results for this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their QC limits for sample 1BGHMW01LFRE:

Compound	%R	QC limits
2-fluorophenol	5	21-110
2-chlorophenol	20	33-110

The results for this sample were previously rejected (R). No further action was taken.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There were no MS / MSD analyses required for this SDG. No action was required.

VII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate pairs 003GMW03MF / 003HMW03MF and 1BGGMW01LF \ 1BGHMW01LF. No action was required.

VIII.) Internal Standards Performance:

All Internal Standard Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met, so no action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for the 7 reanalysis samples were rejected due to Holding Time exceedances. The results for 14 samples (original and reanalyses) were rejected due to two or more surrogate %R's in each sample being below the 10% QC limit. The results for the associated field blank were not reported on the database. All other data were acceptable with qualification.

PESTICIDES/PCB's

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was required.

III.) Calibration:

All Calibration criteria were met. No action was required.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There were no MS / MSD analyses requested for this SDG. No action was required.

VII.) TCL Compound Identification:

Pesticide/PCB Identification Summary (PIS):

All PIS criteria were met. No action was required.

VIII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate sample pairs 003GMW03MF / 003HMW03MF and 1BGGMW01LF / 1BGHMW01LF. No action was required.

IX.) Pesticide Cleanup Check:

Florisil Cartridge Check:

All criteria were met, so no action was taken.

Gel Permeation Chromatography (GPC):

All GPC criteria were met, so no action was necessary.

X.) Overall Assessment of Data/General:

The results for the field blank samples associated with this SDG were not on the database. All other data were acceptable without qualification.

ORGANOPHOSPHORUS PESTICIDES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) of the following compounds exceeded the 20% QC limit for the initial calibration run on 4/05/95.

alpha mevinphos	28.3%
fensulfothion	31.9%
guthion	26.5%

The non-detect results for these compounds in all associated samples were flagged as estimated (UJ).

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/06/95 at 03:35:

merphos	38.4
coumophos	80.4

The results for these compounds in associated samples 003GMW03MF, 008GMW001F, 007GMW03LS, 1BGGMW01LF, 1BGHMW01LF, 1BGGMW01LS, 1BGGMW01UF, 2BGGMW02UF and 003GMW04LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/07/95 at 12:20:

dichlorvos	44.2
alpha mevinphos	67.5
o,demeton	43.0
ethoprop	39.5
naled	38.8
phorate	37.5
s,demeton	45.3
diazinon	53.5
disulfoton	36.6
chlorpyrifos	57.0
trichloronate	29.7
merphos	94.0
tokuthion	34.8
sulprofos	28.9
methyl parathion	48.7
ronnel	46.1
fenthion	40.2
fensulfothion	53.6
stirophos	48.3
coumophos	159

The results for these compounds in associated samples 003GMW04LF, 003GMW04LS, 003GMW05MF, 008GMW001F, 008GMW002F, 003GMW01LS, 003GMW07UF, 003GMW08LS, 003GMW03LS, 003GMW03MF, 003HMW03MF, 1BGGMW01LS and 2BGGMW02UF, which consisted entirely of non-detects were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/07/95 at 15:13:

merphos	25.4
coumophos	73.1

The results for these compounds in associated samples 003GMW04LS, 003GMW01LS, 003GGM08LS, 003HMW03MF, 003GMW05MF and 008GMW002F, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria for the method was met. No action was required.

VI.) Laboratory Control Sample

The Percent Recoveries (%R's) of the following compounds were below the 40-150% QC limit for LCS0325A:

naled	21.3%
merphos	36.9%

All results for these compounds in the associated samples, which consisted entirely of non-detects, were previously flagged based on the associated continuing calibrations. No further action was necessary.

The Percent Recoveries of the following compounds were below the 40-150% QC limits for sample LCS0328A:

o,demeton	32.1%
naled	39.3%
merphos	32.7%

All results for these compounds in the associated samples, which consisted entirely of non-detects, were

previously flagged based on the associated continuing calibrations. No further action was necessary.

VII.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

There were no MS / MSD analyses was requested for this SDG. No action was required.

VIII.) TCL Compound Identification:

The column Percent Difference (%D) for naled (415%) for sample 003GMW04LS exceeded the 70% QC limit. Since the %D exceeded 300%, the result for this compound was rejected (R).

IX.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate sample pairs 003GMW03MF / 003HMW03MF and 1BGGMW01LF / 1BGHMW01LF. No action was required.

X.) Overall Assessment of Data/General:

One result for naled was rejected due to a high PIS %D (>300%). All remaining data were acceptable with qualification.

HERBICIDES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviations (%RSD's) of the following compounds exceeded the 20% QC limit for the initial calibration run on 3/30/95:

MCPP	34.9%
dinoseb	45.8%

Since there were no positive results for these compounds in the associated samples, no action was taken.

Continuing Calibration:

The Percent Difference (%D) of MCPP (30.1%) exceeded the 25% QC limit for the continuing calibration run on 4/01/95 at 04:19. The results for this compound in associated samples 003GGM07UF,

003GMW04LF, 003GMW05MF, 003GMW04LS, 007GMW01LS, 007GMW03LS, 008GMW001F, 1BGGMW01LF, 1BGHMW01LF, 1BGGMW01LS, 1BGGMW01UF and 2BGGMW02UF, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

There were no MS / MSD analyses requested for this SDG. No action was required.

VII.) LCS Recoveries:

The Percent Recovery (%R) of MCPP (154%) exceeded the 10-150% QC limits for LCS sample ESTSPK0403. Since there were no positive results for this compound in the associated samples, no action was necessary.

The Percent Recovery (%R) of 2,4,5-T (160%) exceeded the 10-150% QC limits for LCS HLCS0329A. Since there were no positive detections of this compound in the associated samples, no action was required.

VIII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

IX.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate sample pairs 003GMW03MF / 003HMW03MF and 1BGGMW01LF / 1BGHMW01LF. No action was required.

X.) Overall Assessment of Data/General:

All other data were acceptable with qualification.

TOTAL METALS and CYANIDE

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was required.

III.) Blanks:

The following blank results represent the highest detections associated with the samples and were used for data qualification:

Blank Type/ID#	Element	Max. Conc.	Action Level ug/L
PB	calcium	150 ug/L	750
PB	iron	15.0 ug/L	75.0
PB	magnesium	55.5 ug/l	278
CCB2	selenium	2.20 ug/L	11.0

PB = Preparation Blank, CCB = Continuing Calibration Blank

All results greater than the IDL but less than 5X the blank amount (Action Level, ug/L for water samples) for which the contaminated blank is an associated calibration or preparation blank were flagged as undetected (U).

The following analyte had a negative result with absolute values greater than the IDL:

Blank Type/ID#	Analyte	Neg. Conc.	5X Conc. (ug/L)
CCB2	arsenic	-2.60 ug/L	13.0

CCB = Continuing Calibration Blank

All associated positive sample results less than 5X the absolute value of the negative blank result were flagged as estimated (J) and all non-detects were flagged as estimated (UJ).

IV.) ICP Interference Check Sample Results:

All Interference Check Sample criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

All Serial Dilution criteria were met, so no action was necessary.

VI.) Laboratory Control Samples (LCS):

All Laboratory Control Sample criteria were met. No action was required.

VII.) Duplicate Sample Analysis:

All Duplicate Sample criteria were met. No action was necessary.

VIII.) Matrix Spike Recoveries:

The Percent Recovery (%R) of iron (13.7%) was below the 75-125% QC limits for spiked sample 003GGM01LSS. Since the %R was below 30% and all iron results were positives, associated samples 003GMW03MF, 003GMW04LF, 003GMW04LS and 008GMW001F were flagged as estimated (J).

IX.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate sample pairs 003GMW03MF / 003HMW03MF and 1BGGMW01LF / 1BGHMW01LF. No action was necessary.

X.) Furnace Atomic Absorption QC:

All GFAA criteria were met. No action was required.

XI.) Sample Result, Calculation/Transcription Verification:

All criteria were met, so no action was taken.

XII.) Quarterly Verification of Instrumental Parameters:

All criteria met, so no action was taken.

XIII.) Overall Assessment of Data/General:

All laboratory data were acceptable with qualification.

TOTAL PETROLEUM HYDROCARBONS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no calculable RPD's in the field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

ALKALINITY

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

V.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VI.) Field Duplicates:

There were no field duplicates associated with this SDG.

VII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

BIOCHEMICAL OXYGEN DEMAND

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) Field Duplicates:

There were no field duplicates associated with this SDG.

VII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

CHEMICAL OXYGEN DEMAND

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TOTAL KJELDAHL NITROGEN

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TOTAL PHOSPHORUS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TOTAL SUSPENDED SOLIDS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

HARDNESS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

NITRATE

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TURBIDITY

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 ALKALINITY						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE ANALYZED --->	03/31/95	03/31/95	03/31/95	03/31/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	ppmCa A	ppmCa A	ppmCa A	ppmCa A		
CAS # Parameter						
9999900-03-9 Alkalinity as CaCO3	160.	140.	240.	90.		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 BOD - 5 Da						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE ANALYZED --->	03/23/95	03/23/95	03/23/95	03/23/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-8 Biochemical Oxygen Demand (5-day)	8.2	2. U	2. U	2. U		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 COD						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE ANALYZED --->	03/27/95	03/27/95	03/27/95	03/27/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-04-0 Chemical Oxygen Demand	46.	18.	32.	26.		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 HERB						
SAMPLE ID ------->	003-G-GM01-LS	003-G-GM07-UF	003-G-GM08-LS	003-G-MW03-LS	003-G-MW03-MF	003-H-MW03-MF
ORIGINAL ID ----->	003GGM01LS	003GGM07UF	003GGM08LS	003GMW03LS	003GMW03MF	003HMW03MF
LAB SAMPLE ID --->	120405	120279	120406	120280	120403	120407
SAMPLE DATE ----->	03/22/95	03/21/95	03/22/95	03/21/95	03/22/95	03/22/95
DATE EXTRACTED -->	04/03/95	03/31/95	04/03/95	03/31/95	04/03/95	04/03/95
DATE ANALYZED --->	04/04/95	04/01/95	04/04/95	04/01/95	04/04/95	04/04/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A
CAS # Parameter						
94-82-6 2,4-DB	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
88-85-7 Dinoseb	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
93-76-5 2,4,5-T	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
93-72-1 2,4,5-TP (Silvex)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
75-99-0 Dalapon	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1918-00-9 Dicamba	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
120-36-5 Dichlorprop	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
94-74-6 MCPA	47. U	47. U	47. U	47. U	47. U	47. U
93-65-2 MCPP	47. U	47. UJ	47. U	47. UJ	47. U	47. U
94-75-7 2,4-D	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 HERB						
SAMPLE ID ------->	003-G-MW04-LF	003-G-MW04-LS	003-G-MW05-MF	007-G-MW01-LS	007-G-MW03-LS	008-G-MW00-1F
ORIGINAL ID ----->	003GMW04LF	003GMW04LS	003GMW05MF	007GMW01LS	007GMW03LS	008GMW001F
LAB SAMPLE ID --->	120282	120283	120408	120284	120173	120404
SAMPLE DATE ----->	03/21/95	03/21/95	03/22/95	03/21/95	03/20/95	03/22/95
DATE EXTRACTED -->	03/31/95	03/31/95	04/03/95	03/31/95	03/31/95	04/03/95
DATE ANALYZED --->	04/01/95	04/01/95	04/04/95	04/01/95	04/01/95	04/04/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A
CAS # Parameter						
94-82-6 2,4-DB	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
88-85-7 Dinoseb	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
93-76-5 2,4,5-T	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
93-72-1 2,4,5-TP (Silvex)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
75-99-0 Dalapon	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1918-00-9 Dicamba	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
120-36-5 Dichlorprop	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
94-74-6 MCPA	47. U	47. U	47. U	47. U	47. U	47. U
93-65-2 MCPP	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ	47. U
94-75-7 2,4-D	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 HERB																													
	SAMPLE ID ------->	008-G-MW00-2F			1BG-G-MW01-LF			1BG-H-MW01-LF			1BG-G-MW01-LS			1BG-G-MW01-UF			2BG-G-MW02-UF		
	ORIGINAL ID ----->	008GMW002F			1BGGMW01LF			1BGHMW01LF			1BGGMW01LS			1BGGMW01UF			2BGGMW02UF		
	LAB SAMPLE ID --->	120409			120176			120177			120281			120178			120179		
	SAMPLE DATE ----->	03/22/95			03/20/95			03/20/95			03/21/95			03/20/95			03/20/95		
	DATE EXTRACTED -->	04/03/95			03/31/95			03/31/95			03/31/95			03/31/95			03/31/95		
	DATE ANALYZED --->	04/04/95			04/01/95			04/01/95			04/01/95			04/01/95			04/01/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	ug/L		A	ug/L		A	ug/L		A	ug/L		A	ug/L		A	ug/L		A
CAS #	Parameter																		
94-82-6	2,4-DB	0.47	U		0.47	U		0.47	U		0.47	U		0.47	U		0.47	U	
88-85-7	Dinoseb	0.24	U		0.24	U		0.24	U		0.24	U		0.24	U		0.24	U	
93-76-5	2,4,5-T	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
93-72-1	2,4,5-TP (Silvex)	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
75-99-0	Dalapon	1.1	U		1.1	U		1.1	U		1.1	U		1.1	U		1.1	U	
1918-00-9	Dicamba	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
120-36-5	Dichlorprop	0.47	U		0.47	U		0.47	U		0.47	U		0.47	U		0.47	U	
94-74-6	MCPA	47.	U		47.	U		47.	U		47.	U		47.	U		47.	U	
93-65-2	MCPP	47.	U		47.	UJ		47.	UJ		47.	UJ		47.	UJ		47.	UJ	
94-75-7	2,4-D	0.47	U		0.47	U		0.47	U		0.47	U		0.47	U		0.47	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 Hardness						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE EXTRACTED -->	04/04/95	04/04/95	04/04/95	04/04/95		
DATE ANALYZED --->	04/04/95	04/04/95	04/04/95	04/04/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-3 Hardness as CaCO3	75.	121.	591.	76.		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 KJELDAHL						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE EXTRACTED -->	03/24/95	03/24/95	03/24/95	03/24/95		
DATE ANALYZED --->	03/31/95	03/31/95	03/31/95	03/31/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
999-99-9 Kjeldahl Nitrogen-N	0.5 U	0.5 U	3.7	0.5 U		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL																	
		SAMPLE ID ------->	003-G-GM01-LS		003-G-GM07-UF		003-G-GM08-LS		003-G-MW03-LS		003-G-MW03-MF		003-G-MW03-MF	
		ORIGINAL ID ----->	003GGM01LS		003GGM07UF		003GGM08LS		003GMW03LS		003GMW03MF		003GMW03MF	
		LAB SAMPLE ID --->	8-120411S		2-120287S		8-120412S		2-120288S		8-120413S		120403	
		ID FROM REPORT -->	003GGM01LS		003GGM07UF		003GGM08LS		003GMW03LS		003GMW03MF		003GMW03MF	
		SAMPLE DATE ----->	03/22/95		03/21/95		03/22/95		03/21/95		03/22/95		03/22/95	
		DATE EXTRACTED -->											04/04/95	
		DATE ANALYZED --->											04/04/95	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		ug/L	
CAS #	Parameter		1347	VAL	1347	VAL	1347	VAL	1347	VAL	1347	VAL	1347	VAL
SB	Antimony		40.	U	40.	U	40.	U	40.	U	40.	U	NR	
AS	Arsenic		2.5	J	2.	J	6.4	J	6.3	J	5.6	J	NR	
BA	Barium		200.		71.3	J	195.	J	742.		91.1	J	NR	
BE	Beryllium		1.	U	1.	U	1.	U	2.7	J	1.	U	NR	
CD	Cadmium		3.2	J	3.	U	3.	U	8.9		3.	U	NR	
CR	Chromium		12.1		6.	J	15.4		63.9		7.2	J	NR	
CO	Cobalt		5.	U	5.	U	6.5	J	23.2	J	5.	U	NR	
CU	Copper		15.2	J	5.	U	20.	J	54.4		5.	U	NR	
PB	Lead		5.9		5.8		11.4		7.4		3.3		NR	
HG	Mercury		0.2	U	0.2	U	0.2	U	0.55		0.2	U	NR	
NI	Nickel		15.	U	15.	U	15.	U	55.2		15.	U	NR	
SE	Selenium		2.7	U	2.	U	2.4	U	5.5	U	2.	U	NR	
AG	Silver		3.	U	3.	U	3.	U	3.2	J	3.2	J	NR	
TL	Thallium		2.	U	2.	U	2.	U	2.	U	2.	U	NR	
V	Vanadium		17.5	J	4.	U	23.4	J	86.6		4.	U	NR	
ZN	Zinc		55.6		18.1	J	74.8		183.		10.	J	NR	
SN	Tin		15.	U	15.	U	15.	U	15.	U	15.	U	NR	
AL	Aluminum		NR		NR		NR		NR		NR		NR	
CA	Calcium		NR		NR		NR		NR		NR		18200.	
FE	Iron		NR		NR		NR		NR		NR		1430.	J
MG	Magnesium		NR		NR		NR		NR		NR		7260.	
MN	Manganese		NR		NR		NR		NR		NR		930.	
NA	Sodium		NR		NR		NR		NR		NR		NR	
K	Potassium		NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
		SAMPLE ID ------->	003-H-MW03-MF		003-G-MW04-LF		003-G-MW04-LF		003-G-MW04-LS		003-G-MW04-LS		003-G-MW05-MF	
		ORIGINAL ID ----->	003HMW03MF		003GMW04LF		003GMW04LF		003GMW04LS		003GMW04LS		003GMW05MF	
		LAB SAMPLE ID --->	8-120414S		2-120289S		120282		2-120290S		120283		8-120415S	
		ID FROM REPORT -->	003HMW03MF		003GMW04LF		003GMW04LF		003GMW04LS		003GMW04LS		003GMW05MF	
		SAMPLE DATE ----->	03/22/95		03/21/95		03/21/95		03/21/95		03/21/95		03/22/95	
		DATE EXTRACTED -->					04/04/95				04/04/95			
		DATE ANALYZED --->					04/04/95				04/04/95			
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		ug/L		UG/L		ug/L		UG/L	
CAS #	Parameter		1347	VAL	1347	VAL	1347	VAL	1347	VAL	1347	VAL	1347	VAL
SB	Antimony		40.	U	40.	U	NR		40.	U	NR		40.	U
AS	Arsenic		2.	UJ	2.	UJ	NR		9.3	J	NR		2.	UJ
BA	Barium		90.1	J	112.	J	NR		923.		NR		153.	J
BE	Beryllium		1.	U	1.	U	NR		3.9	J	NR		1.	U
CD	Cadmium		3.	U	3.	U	NR		15.		NR		3.	U
CR	Chromium		5.3	J	5.1	J	NR		112.		NR		5.	U
CO	Cobalt		5.	U	5.2	J	NR		32.9	J	NR		5.	U
CU	Copper		5.	U	5.	U	NR		119.		NR		5.	U
PB	Lead		2.2	J	2.	J	NR		45.5		NR		3.5	
HG	Mercury		0.2	U	0.2	U	NR		0.3		NR		0.2	U
NI	Nickel		15.	U	15.	U	NR		92.1		NR		15.	U
SE	Selenium		2.	U	2.	U	NR		3.6	U	NR		2.	U
AG	Silver		3.	U	3.	U	NR		3.	U	NR		3.	U
TL	Thallium		2.	U	2.	U	NR		2.	U	NR		2.	U
V	Vanadium		4.	U	4.	U	NR		128.		NR		4.	U
ZN	Zinc		5.	U	5.	U	NR		407.		NR		5.	U
SN	Tin		15.	U	15.	U	NR		15.	U	NR		15.	U
AL	Aluminum		NR		NR		NR		NR		NR		NR	
CA	Calcium		NR		NR		25300.		NR		119000.		NR	
FE	Iron		NR		NR		5520.	J	NR		55800.	J	NR	
MG	Magnesium		NR		NR		14200.		NR		71500.		NR	
MN	Manganese		NR		NR		734.		NR		1090.		NR	
NA	Sodium		NR		NR		NR		NR		NR		NR	
K	Potassium		NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
	SAMPLE ID ------->	007-G-MW01-LS		008-G-MW00-1F		008-G-MW00-1F		008-G-MW00-2F		1BG-G-MW01-LF		1BG-H-MW01-LF	
	ORIGINAL ID ----->	007GMW01LS		008GMW001F		008GMW001F		008GMW002F		1BGGMW01LF		1BGHMW01LF	
	LAB SAMPLE ID --->	2-120292S		8-120416S		120404		8-120417S		1-120189S		1-120190S	
	ID FROM REPORT -->	007GMW01LS		008GMW001F		008GMW001F		008GMW002F		1BGGMW01LF		1BGHMW01LF	
	SAMPLE DATE ----->	03/21/95		03/22/95		03/22/95		03/22/95		03/20/95		03/20/95	
	DATE EXTRACTED -->					04/04/95							
	DATE ANALYZED --->					04/04/95							
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		ug/L		UG/L		UG/L		UG/L	
CAS #	Parameter	1347	VAL	1347	VAL	1347	VAL	1347	VAL	1347	VAL	1347	VAL
SB	Antimony	40.	U	40.	U	NR		40.	U	40.	U	40.	U
AS	Arsenic	2.	UJ	2.	UJ	NR		2.	UJ	2.	UJ	2.	UJ
BA	Barium	90.4	J	65.6	J	NR		74.3	J	192.	J	191.	J
BE	Beryllium	1.	U	1.	U	NR		1.	U	1.	U	1.	U
CD	Cadmium	3.	U	3.	U	NR		3.	U	3.7	J	3.	U
CR	Chromium	10.4		5.	U	NR		5.	U	5.	U	5.	U
CO	Cobalt	5.5	J	5.	U	NR		5.	U	5.	U	5.	U
CU	Copper	7.4	J	5.	U	NR		5.	U	5.	U	5.	U
PB	Lead	6.5		3.6		NR		3.8		4.		2.	U
HG	Mercury	0.2	U	0.2	U	NR		0.2	U	0.2	U	0.2	U
NI	Nickel	15.	U	15.	U	NR		15.	U	15.	U	15.	U
SE	Selenium	2.	U	2.1	U	NR		2.2	U	2.	U	2.	U
AG	Silver	3.	U	3.	U	NR		3.	U	3.	U	3.	U
TL	Thallium	2.	U	2.	U	NR		2.	U	2.	U	2.	U
V	Vanadium	11.7	J	4.	U	NR		4.	U	4.	U	4.	U
ZN	Zinc	28.9		11.	J	NR		8.3	J	7.	J	9.	J
SN	Tin	15.	U	15.	U	NR		15.	U	15.	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		16600.		NR		NR		NR	
FE	Iron	NR		NR		319.	J	NR		NR		NR	
MG	Magnesium	NR		NR		8500.		NR		NR		NR	
MN	Manganese	NR		NR		228.		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL												
		SAMPLE ID ------->	1BG-G-MW01-LS		1BG-G-MW01-UF		2BG-G-MW02-UF					
		ORIGINAL ID ----->	1BGGMW01LS		1BGGMW01UF		2BGGMW02UF					
		LAB SAMPLE ID --->	2-120291S		1-120191S		1-120192S					
		ID FROM REPORT -->	1BGGMW01LS		1BGGMW01UF		2BGGMW02UF					
		SAMPLE DATE ----->	03/21/95		03/20/95		03/20/95					
		MATRIX ---------->	Water		Water		Water					
		UNITS ---------->	UG/L		UG/L		UG/L					
CAS #	Parameter		1347	VAL	1347	VAL	1347	VAL				
SB	Antimony		40.	U	40.	U	40.	U				
AS	Arsenic		4.4	J	3.9	J	2.	UJ				
BA	Barium		163.	J	18.4	J	89.1	J				
BE	Beryllium		1.	U	1.	U	1.	U				
CD	Cadmium		3.9	J	3.	U	3.	U				
CR	Chromium		20.5		15.4		5.	U				
CO	Cobalt		8.1	J	5.	U	5.	U				
CU	Copper		27.3		5.	U	5.	U				
PB	Lead		12.2		2.	U	3.6					
HG	Mercury		0.2	U	0.2	U	0.2	U				
NI	Nickel		15.	U	15.	U	15.	U				
SE	Selenium		3.	U	2.	U	2.	U				
AG	Silver		3.	U	3.	U	3.	U				
TL	Thallium		2.	U	2.	U	2.	U				
V	Vanadium		34.	J	24.1	J	4.	U				
ZN	Zinc		107.		5.	U	5.	U				
SN	Tin		15.	U	15.	U	15.	U				
AL	Aluminum		NR		NR		NR					
CA	Calcium		NR		NR		NR					
FE	Iron		NR		NR		NR					
MG	Magnesium		NR		NR		NR					
MN	Manganese		NR		NR		NR					
NA	Sodium		NR		NR		NR					
K	Potassium		NR		NR		NR					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 METAL-CN						
SAMPLE ID ------->	003-G-GM01-LS	003-G-GM07-UF	003-G-GM08-LS	003-G-MW03-LS	003-G-MW03-MF	003-H-MW03-MF
ORIGINAL ID ----->	003GGM01LS	003GGM07UF	003GGM08LS	003GMW03LS	003GMW03MF	003HMW03MF
LAB SAMPLE ID --->	120405	120279	120406	120280	120403	120407
SAMPLE DATE ----->	03/22/95	03/21/95	03/22/95	03/21/95	03/22/95	03/22/95
DATE EXTRACTED -->	03/30/95	03/30/95	03/30/95	03/30/95	03/30/95	03/30/95
DATE ANALYZED --->	04/03/95	03/29/95	04/03/95	03/29/95	04/03/95	04/03/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 METAL-CN						
SAMPLE ID ------->	003-G-MW04-LF	003-G-MW04-LS	003-G-MW05-MF	007-G-MW03-LS	008-G-MW00-1F	008-G-MW00-2F
ORIGINAL ID ----->	003GMW04LF	003GMW04LS	003GMW05MF	007GMW03LS	008GMW001F	008GMW002F
LAB SAMPLE ID --->	120282	120283	120408	120173	120404	120409
SAMPLE DATE ----->	03/21/95	03/21/95	03/22/95	03/20/95	03/22/95	03/22/95
DATE EXTRACTED -->	03/30/95	03/30/95	03/31/95	03/27/95	03/30/95	03/31/95
DATE ANALYZED --->	03/29/95	03/29/95	04/03/95	03/29/95	04/03/95	04/03/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 METAL-CN						
SAMPLE ID ------->	1BG-G-MW01-LF	1BG-H-MW01-LF	1BG-G-MW01-LS	1BG-G-MW01-UF	2BG-G-MW02-UF	
ORIGINAL ID ----->	1BGGMW01LF	1BGHMW01LF	1BGGMW01LS	1BGGMW01UF	2BGGMW02UF	
LAB SAMPLE ID --->	120176	120177	120281	120178	120179	
SAMPLE DATE ----->	03/20/95	03/20/95	03/21/95	03/20/95	03/20/95	
DATE EXTRACTED -->	03/27/95	03/27/95	03/30/95	03/27/95	03/30/95	
DATE ANALYZED --->	03/29/95	03/29/95	03/29/95	03/29/95	03/29/95	
MATRIX ---------->	Water	Water	Water	Water	Water	
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	

*** Validation Complete ***

1347 NITRATE						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE ANALYZED --->	03/29/95	03/23/95	03/23/95	03/23/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-4 Nitrate-N	0.1 U	0.85	0.1 U	1.4		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 OP PEST													
	SAMPLE ID ------->	003-G-GM01-LS		003-G-GM07-UF		003-G-GM08-LS		003-G-MW03-LS		003-G-MW03-MF		003-H-MW03-MF	
	ORIGINAL ID ----->	003GGM01LS		003GGM07UF		003GGM08LS		003GMW03LS		003GMW03MF		003HMW03MF	
	LAB SAMPLE ID --->	120405		120279		120406		120280		120403		120407	
	SAMPLE DATE ----->	03/22/95		03/21/95		03/22/95		03/21/95		03/22/95		03/22/95	
	DATE EXTRACTED -->	04/03/95		04/03/95		04/03/95		04/03/95		04/03/95		04/03/95	
	DATE ANALYZED --->	04/07/95		04/06/95		04/07/95		04/06/95		04/06/95		04/07/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
333-41-5	Diazinon	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
62-73-7	Dichlorvos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-04-4	Disulfoton	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-00-0	Methyl parathion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-02-2	Phorate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
299-84-3	Ronnel	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
34643-46-4	Tokuthion	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
126-75-0	Demeton,S	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 OP PEST													
	SAMPLE ID ------->	003-G-MW04-LF		003-G-MW04-LS		003-G-MW05-MF		007-G-MW03-LS		008-G-MW00-1F		008-G-MW00-2F	
	ORIGINAL ID ----->	003GMW04LF		003GMW04LS		003GMW05MF		007GMW03LS		008GMW001F		008GMW002F	
	LAB SAMPLE ID --->	120282		120283		120408		120173		120404		120409	
	SAMPLE DATE ----->	03/21/95		03/21/95		03/22/95		03/20/95		03/22/95		03/22/95	
	DATE EXTRACTED -->	04/03/95		04/03/95		04/03/95		04/03/95		04/03/95		04/03/95	
	DATE ANALYZED --->	04/06/95		04/07/95		04/07/95		04/05/95		04/06/95		04/08/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
333-41-5	Diazinon	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
62-73-7	Dichlorvos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
298-04-4	Disulfoton	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	3.5	R	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
298-00-0	Methyl parathion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
298-02-2	Phorate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
299-84-3	Ronnel	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ
126-75-0	Demeton,S	2.5	UJ	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 OP PEST												
	SAMPLE ID ------->	1BG-G-MW01-LF		1BG-H-MW01-LF		1BG-G-MW01-LS		1BG-G-MW01-UF		2BG-G-MW02-UF		
	ORIGINAL ID ----->	1BGGMW01LF		1BGHMW01LF		1BGGMW01LS		1BGGMW01UF		2BGGMW02UF		
	LAB SAMPLE ID --->	120176		120177		120281		120178		120179		
	SAMPLE DATE ----->	03/20/95		03/20/95		03/21/95		03/20/95		03/20/95		
	DATE EXTRACTED -->	04/03/95		04/03/95		04/03/95		04/03/95		04/03/95		
	DATE ANALYZED --->	04/05/95		04/05/95		04/06/95		04/06/95		04/06/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	
CAS #	Parameter											
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ	
35400-43-2	Sulprofos	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
2921-88-2	Chloropyrifos	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
8065-48-3	Demeton,O	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
333-41-5	Diazinon	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
62-73-7	Dichlorvos	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
298-04-4	Disulfoton	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
13194-48-4	Ethoprop	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
55-38-9	Fenthion	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	
300-76-5	Naled	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
298-00-0	Methyl parathion	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
298-02-2	Phorate	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
299-84-3	Ronnel	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
34643-46-4	Tokuthion	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
327-98-0	Trichloronate	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	
126-75-0	Demeton,S	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	UJ	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 PEST						
SAMPLE ID ------->	003-G-GM01-LS	003-G-GM07-UF	003-G-GM08-LS	003-G-MW03-LS	003-G-MW03-MF	003-H-MW03-MF
ORIGINAL ID ----->	003GGM01LS	003GGM07UF	003GGM08LS	003GMW03LS	003GMW03MF	003HMW03MF
LAB SAMPLE ID --->	120411	120287	120412	120288	120413	120414
SAMPLE DATE ----->	03/22/95	03/21/95	03/22/95	03/21/95	03/22/95	03/22/95
DATE EXTRACTED -->	03/29/95	03/25/95	03/29/95	03/25/95	03/29/95	03/29/95
DATE ANALYZED --->	04/06/95	04/08/95	04/06/95	04/08/95	04/07/95	04/07/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A
CAS # Parameter						
319-84-6 alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7 beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8 delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
58-89-9 gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8 Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
309-00-2 Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3 Heptachlor epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8 Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1 Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9 4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8 Endrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
33213-65-9 Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-54-8 4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8 Endosulfan sulfate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3 4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-43-5 Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53494-70-5 Endrin ketone	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7421-36-3 Endrin aldehyde	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
5103-71-9 alpha-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
5103-74-2 gamma-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
8001-35-2 Toxaphene	1. U	1. U	1. U	1. U	1. U	1. U
12674-11-2 Aroclor-1016	1. U	1. U	1. U	1. U	1. U	1. U
11104-28-2 Aroclor-1221	1. U	1. U	1. U	1. U	1. U	1. U
11141-16-5 Aroclor-1232	1. U	1. U	1. U	1. U	1. U	1. U
53469-21-9 Aroclor-1242	1. U	1. U	1. U	1. U	1. U	1. U
12672-29-6 Aroclor-1248	1. U	1. U	1. U	1. U	1. U	1. U
11097-69-1 Aroclor-1254	1. U	1. U	1. U	1. U	1. U	1. U
11096-82-5 Aroclor-1260	1. U	1. U	1. U	1. U	1. U	1. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 PEST						
SAMPLE ID ------->	003-G-MW04-LF	003-G-MW04-LS	003-G-MW05-MF	007-G-MW03-LS	008-G-MW00-1F	008-G-MW00-2F
ORIGINAL ID ----->	003GMW04LF	003GMW04LS	003GMW05MF	007GMW03LS	008GMW001F	008GMW002F
LAB SAMPLE ID --->	120289	120290	120415	120193	120416	120417
SAMPLE DATE ----->	03/21/95	03/21/95	03/22/95	03/20/95	03/22/95	03/22/95
DATE EXTRACTED -->	03/25/95	03/25/95	03/29/95	03/25/95	03/29/95	03/29/95
DATE ANALYZED --->	04/08/95	04/08/95	04/07/95	04/08/95	04/07/95	04/07/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A
CAS # Parameter						
319-84-6 alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7 beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8 delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
58-89-9 gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8 Heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
309-00-2 Aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3 Heptachlor epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8 Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1 Dieldrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9 4,4'-DDE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8 Endrin	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
33213-65-9 Endosulfan II	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-54-8 4,4'-DDD	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8 Endosulfan sulfate	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3 4,4'-DDT	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-43-5 Methoxychlor	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53494-70-5 Endrin ketone	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7421-36-3 Endrin aldehyde	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
5103-71-9 alpha-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
5103-74-2 gamma-Chlordane	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
8001-35-2 Toxaphene	1. U	1. U	1. U	1. U	1. U	1. U
12674-11-2 Aroclor-1016	1. U	1. U	1. U	1. U	1. U	1. U
11104-28-2 Aroclor-1221	1. U	1. U	1. U	1. U	1. U	1. U
11141-16-5 Aroclor-1232	1. U	1. U	1. U	1. U	1. U	1. U
53469-21-9 Aroclor-1242	1. U	1. U	1. U	1. U	1. U	1. U
12672-29-6 Aroclor-1248	1. U	1. U	1. U	1. U	1. U	1. U
11097-69-1 Aroclor-1254	1. U	1. U	1. U	1. U	1. U	1. U
11096-82-5 Aroclor-1260	1. U	1. U	1. U	1. U	1. U	1. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 PEST												
	SAMPLE ID ------->	1BG-G-MW01-LF		1BG-H-MW01-LF		1BG-G-MW01-LS		1BG-G-MW01-UF		2BG-G-MW02-UF		
	ORIGINAL ID ----->	1BGGMW01LF		1BGHMW01LF		1BGGMW01LS		1BGGMW01UF		2BGGMW02UF		
	LAB SAMPLE ID --->	120189		120190		120291		120191		120192		
	SAMPLE DATE ----->	03/20/95		03/20/95		03/21/95		03/20/95		03/20/95		
	DATE EXTRACTED -->	03/25/95		03/25/95		03/25/95		03/25/95		03/25/95		
	DATE ANALYZED --->	04/08/95		04/08/95		04/08/95		04/08/95		04/08/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter											
319-84-6	alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
959-98-8	Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
72-54-8	4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
1031-07-8	Endosulfan sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
50-29-3	4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
72-43-5	Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
7421-36-3	Endrin aldehyde	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	U	
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	1.	U	
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	1.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 SVOA													
	SAMPLE ID ------->	003-G-GM01-LS		003-G-GM07-UF		003-G-GM08-LS		003-G-MW03-LS		003-G-MW03-MF		003-H-MW03-MF	
	ORIGINAL ID ----->	003GGM01LS		003GGM07UF		003GGM08LS		003GMW03LS		003GMW03MF		003HMW03MF	
	LAB SAMPLE ID --->	120411		120287		120412		120288		120413		120414	
	SAMPLE DATE ----->	03/22/95		03/21/95		03/22/95		03/21/95		03/22/95		03/22/95	
	DATE EXTRACTED -->	03/29/95		04/10/95		03/29/95		03/27/95		03/30/95		03/29/95	
	DATE ANALYZED --->	04/11/95		04/20/95		04/11/95		04/10/95		04/12/95		04/11/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	UJ	10.	U	10.	U	10.	UJ	10.	U
67-72-1	Hexachloroethane	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
105-67-9	2,4-Dimethylphenol	10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
87-68-3	Hexachlorobutadiene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
91-57-6	2-Methylnaphthalene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	UJ	25.	U	25.	U	25.	UR	25.	UR
91-58-7	2-Chloronaphthalene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	UJ	25.	U	25.	U	25.	UJ	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	UJ	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	U	25.	UJ	25.	U	25.	U	25.	UR	25.	UR
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UR	25.	UR
132-64-9	Dibenzofuran	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	UJ	25.	U	25.	U	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	UJ	25.	UJ	25.	U	25.	UR	25.	UR
86-30-6	N-Nitrosodiphenylamine	10.	UJ	10.	UJ	10.	U	10.	UJ	10.	UJ	10.	UJ
101-55-3	4-Bromophenylphenylether	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	U	25.	UJ	25.	U	25.	U	25.	UR	25.	UR
85-01-8	Phenanthrene	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 SVOA		SAMPLE ID ------->	003-G-GM01-LS		003-G-GM07-UF		003-G-GM08-LS		003-G-MW03-LS		003-G-MW03-MF		003-H-MW03-MF	
		ORIGINAL ID ----->	003GGM01LS		003GGM07UF		003GGM08LS		003GMW03LS		003GMW03MF		003HMW03MF	
		LAB SAMPLE ID --->	120411		120287		120412		120288		120413		120414	
		SAMPLE DATE ----->	03/22/95		03/21/95		03/22/95		03/21/95		03/22/95		03/22/95	
		DATE EXTRACTED -->	03/29/95		04/10/95		03/29/95		03/27/95		03/30/95		03/29/95	
		DATE ANALYZED --->	04/11/95		04/20/95		04/11/95		04/10/95		04/12/95		04/11/95	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ----------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter													
120-12-7	Anthracene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)		10.	U	10.	UJ	2.	J	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol		10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
111-44-4	bis(2-Chloroethyl)ether		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol		10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
541-73-1	1,3-Dichlorobenzene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)		10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
108-60-1	2,2'-oxybis(1-Chloropropane)		10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U
106-44-5	4-Methylphenol (p-Cresol)		10.	U	10.	UJ	10.	U	10.	U	10.	UR	10.	UR
98-95-3	Nitrobenzene		10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 SVOA	SAMPLE ID ------->	003-G-MW04-LF		003-G-MW04-LS		003-G-MW05-MF		007-G-MW03-LS		008-G-MW00-1F		008-G-MW00-2F	
	ORIGINAL ID ----->	003GMW04LF		003GMW04LS		003GMW05MF		007GMW03LS		008GMW001F		008GMW002F	
	LAB SAMPLE ID --->	120289		120290		120415		120193		120416		120417	
	SAMPLE DATE ----->	03/21/95		03/21/95		03/22/95		03/20/95		03/22/95		03/22/95	
	DATE EXTRACTED -->	03/27/95		03/27/95		03/29/95		03/27/95		03/29/95		03/29/95	
	DATE ANALYZED --->	04/10/95		04/10/95		04/11/95		04/10/95		04/11/95		04/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	UJ
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
105-67-9	2,4-Dimethylphenol	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
91-57-6	2-Methylnaphthalene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
95-95-4	2,4,5-Trichlorophenol	25.	UR	25.	UR	25.	UR	25.	U	25.	U	25.	UR
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	UJ
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UR	25.	UR	25.	UR	25.	U	25.	U	25.	UR
100-02-7	4-Nitrophenol	25.	UR	25.	UR	25.	UR	25.	UJ	25.	UJ	25.	UR
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	UR	25.	UR	25.	UR	25.	U	25.	U	25.	UR
86-30-6	N-Nitrosodiphenylamine	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	UR	25.	UR	25.	UR	25.	U	25.	U	25.	UR
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 SVOA													
	SAMPLE ID ------->	003-G-MW04-LF		003-G-MW04-LS		003-G-MW05-MF		007-G-MW03-LS		008-G-MW00-1F		008-G-MW00-2F	
	ORIGINAL ID ----->	003GMW04LF		003GMW04LS		003GMW05MF		007GMW03LS		008GMW001F		008GMW002F	
	LAB SAMPLE ID --->	120289		120290		120415		120193		120416		120417	
	SAMPLE DATE ----->	03/21/95		03/21/95		03/22/95		03/20/95		03/22/95		03/22/95	
	DATE EXTRACTED -->	03/27/95		03/27/95		03/29/95		03/27/95		03/29/95		03/29/95	
	DATE ANALYZED --->	04/10/95		04/10/95		04/11/95		04/10/95		04/11/95		04/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	2.	J	1.	J	2.	J	8.	J	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
106-44-5	4-Methylphenol (p-Cresol)	10.	UR	10.	UR	10.	UR	10.	U	10.	U	10.	UR
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

1347 SVOA													
	SAMPLE ID ------->	1BG-G-MW01-LF		1BG-H-MW01-LF		1BG-G-MW01-LS		1BG-G-MW01-UF		2BG-G-MW02-UF			
	ORIGINAL ID ----->	1BGGMW01LF		1BGHMW01LF		1BGGMW01LS		1BGGMW01UF		2BGGMW02UF			
	LAB SAMPLE ID --->	120189		120190		120291		120191		120192			
	SAMPLE DATE ----->	03/20/95		03/20/95		03/21/95		03/20/95		03/20/95			
	DATE EXTRACTED -->	03/27/95		03/27/95		03/27/95		03/27/95		03/27/95			
	DATE ANALYZED --->	04/10/95		04/10/95		04/11/95		04/10/95		04/10/95			
	MATRIX ---------->	Water		Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U		
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U		
88-75-5	2-Nitrophenol	10.	UR	10.	UR	10.	U	10.	U	10.	U		
105-67-9	2,4-Dimethylphenol	10.	UR	10.	UR	10.	U	10.	U	10.	U		
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U		
120-83-2	2,4-Dichlorophenol	10.	UR	10.	UR	10.	U	10.	U	10.	U		
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U		
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U		
106-47-8	4-Chloroaniline	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ		
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U		
59-50-7	4-Chloro-3-methylphenol	10.	UR	10.	UR	10.	U	10.	U	10.	U		
91-57-6	2-Methylnaphthalene	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ		
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U		
88-06-2	2,4,6-Trichlorophenol	10.	UR	10.	UR	10.	U	10.	U	10.	U		
95-95-4	2,4,5-Trichlorophenol	25.	UR	25.	UR	25.	U	25.	U	25.	U		
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U		
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U		
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U		
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U		
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U		
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U		
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U		
51-28-5	2,4-Dinitrophenol	25.	UR	25.	UR	25.	U	25.	U	25.	U		
100-02-7	4-Nitrophenol	25.	UR	25.	UR	25.	UJ	25.	UJ	25.	UJ		
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U		
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U		
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U		
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U		
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U		
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U		
534-52-1	4,6-Dinitro-2-methylphenol	25.	UR	25.	UR	25.	U	25.	U	25.	U		
86-30-6	N-Nitrosodiphenylamine	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ		
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U		
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U		
87-86-5	Pentachlorophenol	25.	UR	25.	UR	25.	U	25.	U	25.	U		
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 SVOA											
	SAMPLE ID ------->	1BG-G-MW01-LF		1BG-H-MW01-LF		1BG-G-MW01-LS		1BG-G-MW01-UF		2BG-G-MW02-UF	
	ORIGINAL ID ----->	1BGGMW01LF		1BGHMW01LF		1BGGMW01LS		1BGGMW01UF		2BGGMW02UF	
	LAB SAMPLE ID --->	120189		120190		120291		120191		120192	
	SAMPLE DATE ----->	03/20/95		03/20/95		03/21/95		03/20/95		03/20/95	
	DATE EXTRACTED -->	03/27/95		03/27/95		03/27/95		03/27/95		03/27/95	
	DATE ANALYZED --->	04/10/95		04/10/95		04/11/95		04/10/95		04/10/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter										
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	UR	10.	UR	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	UR	10.	UR	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	UR	10.	UR	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ
106-44-5	4-Methylphenol (p-Cresol)	10.	UR	10.	UR	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 TOTAL PHOS							
	SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
	ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
	LAB SAMPLE ID --->	120403	120282	120283	120404		
	SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
	DATE EXTRACTED -->	04/17/95	04/17/95	04/17/95	04/17/95		
	DATE ANALYZED --->	04/17/95	04/17/95	04/17/95	04/17/95		
	MATRIX ---------->	Water	Water	Water	Water		
	UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS #	Parameter						
9999900-03-5	Phosphorus Total	0.27	0.022	0.022	0.022		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 TPH						
SAMPLE ID ------->	003-G-GM01-LS	003-G-GM07-UF	003-G-GM08-LS	003-G-MW03-LS	003-G-MW03-MF	003-H-MW03-MF
ORIGINAL ID ----->	003GGM01LS	003GGM07UF	003GGM08LS	003GMW03LS	003GMW03MF	003HMW03MF
LAB SAMPLE ID --->	120405	120279	120406	120280	120403	120407
SAMPLE DATE ----->	03/22/95	03/21/95	03/22/95	03/21/95	03/22/95	03/22/95
DATE EXTRACTED -->	04/13/95	04/19/95	04/13/95	04/19/95	04/13/95	04/13/95
DATE ANALYZED --->	04/13/95	04/19/95	04/13/95	04/19/95	04/13/95	04/13/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 TPH						
SAMPLE ID ------->	003-G-MW04-LF	003-G-MW04-LS	003-G-MW05-MF	007-G-MW01-LS	007-G-MW03-LS	008-G-MW00-1F
ORIGINAL ID ----->	003GMW04LF	003GMW04LS	003GMW05MF	007GMW01LS	007GMW03LS	008GMW001F
LAB SAMPLE ID --->	120282	120283	120408	120284	120173	120404
SAMPLE DATE ----->	03/21/95	03/21/95	03/22/95	03/21/95	03/20/95	03/22/95
DATE EXTRACTED -->	04/19/95	04/19/95	04/13/95	04/19/95	04/11/95	04/13/95
DATE ANALYZED --->	04/19/95	04/19/95	04/13/95	04/19/95	04/12/95	04/13/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 TPH							
	SAMPLE ID ------->	008-G-MW00-2F	1BG-G-MW01-LF	1BG-H-MW01-LF	1BG-G-MW01-LS	1BG-G-MW01-UF	2BG-G-MW02-UF
	ORIGINAL ID ----->	008GMW002F	1BGGMW01LF	1BGHMW01LF	1BGGMW01LS	1BGGMW01UF	2BGGMW02UF
	LAB SAMPLE ID --->	120409	120176	120177	120281	120178	120179
	SAMPLE DATE ----->	03/22/95	03/20/95	03/20/95	03/21/95	03/20/95	03/20/95
	DATE EXTRACTED -->	04/13/95	04/11/95	04/11/95	04/19/95	04/11/95	04/11/95
	DATE ANALYZED --->	04/13/95	04/12/95	04/12/95	04/19/95	04/12/95	04/12/95
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 TSS						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE ANALYZED --->	03/24/95	03/24/95	03/24/95	03/24/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-7 Total Suspended Solids (TSS)	17.	11.	4900.	149.		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 Turbidity						
SAMPLE ID ------->	003-G-MW03-MF	003-G-MW04-LF	003-G-MW04-LS	008-G-MW00-1F		
ORIGINAL ID ----->	003GMW03MF	003GMW04LF	003GMW04LS	008GMW001F		
LAB SAMPLE ID --->	120403	120282	120283	120404		
SAMPLE DATE ----->	03/22/95	03/21/95	03/21/95	03/22/95		
DATE ANALYZED --->	03/23/95	03/23/95	03/23/95	03/23/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	NTU A	NTU A	NTU A	NTU A		
CAS # Parameter						
9999900-04-4 Turbidity	23.	15.	1500.	22.		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 VOA	SAMPLE ID ------->	003-G-GM01-LS		003-G-GM07-UF		003-G-GM08-LS		003-G-MW03-LS		003-G-MW03-MF		003-H-MW03-MF	
	ORIGINAL ID ----->	003GGM01LS		003GGM07UF		003GGM08LS		003GMW03LS		003GMW03MF		003HMW03MF	
	LAB SAMPLE ID --->	120411		120287		120412		120288		120413		120414	
	SAMPLE DATE ----->	03/22/95		03/21/95		03/22/95		03/21/95		03/22/95		03/22/95	
	DATE ANALYZED --->	03/26/95		03/30/95		03/26/95		03/30/95		03/26/95		03/26/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	UJ
74-83-9	Bromomethane	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	UJ
75-01-4	Vinyl chloride	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	UJ
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	U	34.	J	10.	U	7.	J	1000.	D	1300.	D
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	1.	J	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	UJ	10.	U	10.	UJ	10.	U	10.	UJ	10.	UJ
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	2.	J	1.	J
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	22.	J	14.	J

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1347 VOA	SAMPLE ID ------->	003-G-MW04-LF		003-G-MW04-LS		003-G-MW05-MF		008-G-MW00-1F		008-G-MW00-2F		1BG-G-MW01-LF	
	ORIGINAL ID ----->	003GMW04LF		003GMW04LS		003GMW05MF		008GMW001F		008GMW002F		1BGGMW01LF	
	LAB SAMPLE ID --->	120289		120290		120415		120416		120417		120189	
	SAMPLE DATE ----->	03/21/95		03/21/95		03/22/95		03/22/95		03/22/95		03/20/95	
	DATE ANALYZED --->	03/30/95		03/30/95		03/26/95		03/26/95		03/26/95		03/27/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ	10.	UJ
74-83-9	Bromomethane	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ	10.	UJ
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	U	10.	U	24.	U	10.	U	10.	U	11.	UJ
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	UJ
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	UJ
591-78-6	2-Hexanone	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ	10.	UJ
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1347 VOA											
	SAMPLE ID ------->	1BG-H-MW01-LF		1BG-G-MW01-LS		1BG-G-MW01-UF		2BG-G-MW02-UF			
	ORIGINAL ID ----->	1BGHMW01LF		1BGGMW01LS		1BGGMW01UF		2BGGMW02UF			
	LAB SAMPLE ID --->	120190		120291		120191		120192			
	SAMPLE DATE ----->	03/20/95		03/21/95		03/20/95		03/20/95			
	DATE ANALYZED --->	03/27/95		03/30/95		03/27/95		03/27/95			
	MATRIX ---------->	Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter										
74-87-3	Chloromethane	10.	UJ	10.	U	10.	UJ	10.	UJ		
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U		
75-01-4	Vinyl chloride	10.	UJ	10.	U	10.	UJ	10.	UJ		
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U		
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U		
67-64-1	Acetone	10.	UJ	13.	U	10.	UJ	10.	UJ		
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U		
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U		
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U		
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U		
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U		
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U		
78-93-3	2-Butanone (MEK)	10.	UJ	10.	U	10.	UJ	10.	UJ		
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U		
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U		
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U		
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U		
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U		
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U		
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U		
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U		
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U		
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U		
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	UJ	10.	U	10.	UJ	10.	UJ		
591-78-6	2-Hexanone	10.	UJ	10.	U	10.	UJ	10.	UJ		
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U		
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U		
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U		
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U		
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U		
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U		
1330-20-7	Xylene (Total)	10.	U	10.	U	2.	J	10.	U		

*** Validation Complete ***

VALIDATA

Chemical Services, Inc.

P. O. Box 930422 Norcross, Ga. 30093

DATA VALIDATION SUMMARY REPORT

COMPANY:	Ensafe/Allen & Hoshall
SITE NAME:	NAS Memphis
PROJECT NUMBER:	8500.024
CONTRACTED LAB:	National Environmental Testing, Inc.
QA/QC LEVEL:	Level III
EPA SOW/METHOD:	EPA 1990 SOW
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, 1994; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, 1994
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organics (VOA), Semivolatile Organics (SVOA), Pesticides/PCB's (P/PCB), Total Metals and Cyanide (Me/CN), Total Petroleum Hydrocarbons (TPH), Herbicides (HERB), Organophosphorus Pesticides (OPPE), Hardness (HD)
SDG NUMBER:	1353

SAMPLES:

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOA	P/PCB	HERB	TPH
003GMW02LS	120517/32	Water	X	X	X	X	X
005GMW01UF	120669/71	Water	X	X	X	X	X
005GMW03LS	120608/16	Water	X	X	X	X	X
005GMW05LF	120518/33	Water	X	X	X	X	X
005GMW06LS	120617	Water	X	X	X		
007GMW01LS	120672	Water			X		
008GGM011F	120535	Water	X				
008GMW01LF	120520	Water		X	X	X	X
008GMW003F	120521/36	Water	X	X	X	X	X
008GMW004F	120522/37	Water	X	X	X	X	X
008GMW004FMS	120522/37MS	Water	X	X	X	X	X
008GMW004FMSD	120522/37MSD	Water	X	X	X	X	X
060GMW01LS	120611/19	Water	X	X	X	X	X
060GMW02LF	120524/39	Water	X	X	X	X	X

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOC	P/PCB	HERB	TPH
060HMW02LF	120525/40	Water	X	X	X	X	X
060GMW02LFRE	120539RE	Water		X			
060HMW02LFRE	120540RE	Water		X			
060GMW02LS	120526/41	Water	X	X	X	X	X
060GMW03LF	120527/42	Water	X	X	X	X	X
060GMW03LS	120612/20	Water	X	X	X	X	X
060GMW04LS	120613/21	Water	X	X	X	X	X
060GMW05LS	120614/22	Water	X	X	X	X	X
060GMW06LS	120615/23	Water	X	X	X	X	X
060F032495	120618	Water	X		X	X	
060F032495RE	120618RE	Water		X			
008F032395	120519	Water	X	X	X	X	
005F032795	120670	Water	X	X	X	X	
060T032495	120624	Water	X				
005T032795	120673	Water	X				
TRIP BLANK	120543	Water	X				

H = FIELD DUPLICATE, MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE,
F = FIELD BLANK, RE = REANALYSIS, T = TRIP BLANK

Client Sample #:	Lab Sample #:	Matrix	Met/CN	HD	OPPE
003GMW02LS	120532/17	Water	X		X
005GMW01UF	120671/69	Water	X		X
005GMW03LS	120608*	Water	X	X	X
005GMW03LS	120616	Water	X		
005GMW05LF	120533/18	Water	X		X
005GMW06LS	120617	Water	X		
008GMW01LF	120535/20	Water	X		X
008GMW003F	120536/21	Water	X		X
008GMW004F	120537/22	Water	X		X
008GMW004FMS	120522MS	Water	X		X
008GMW004FMSD	120522MSD	Water			X
008GMW004FMD	120522MD	Water	X		
060GMW01LS	120611*	Water	X	X	X
060GMW01LS	120619	Water	X		
060GMW02LF	120539/24	Water	X		X
060HMW02LF	120540/25	Water	X		X
060GMW02LS	120541/26	Water	X		X
060GMW03LF	120542/27	Water	X		X
060GMW03LS	120620/12	Water	X		X
060GMW04LS	120621/13	Water	X		X
060GMW05LS	120622/14	Water	X		X
060GMW06LS	120623/15	Water	X		X
060F032495	120618	Water	X		X
008F032395	120519	Water	X		X
005F032795	120670	Water	X		X

MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE, MD = MATRIX DUPLICATE
* = SAMPLES WERE ANALYZED FOR IRON, MANGANESE, CALCIUM and MAGNESIUM
H = FIELD DUPLICATE

DATA REVIEWER(S): Amy L. Hogan, Marvin L. Smith

RELEASE SIGNATURE: Kevin C. Harmon

Data Qualifier Definitions:

J	-	The associated numerical value is an estimated quantity.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1353 Organics and Inorganics

SAMPLES: 003GMW02LS, 005GMW01UF, 005GMW03LS, 005GMW05LF, 008GMW01LF, 008GMW003F, 008GMW004F, 008GMW004FMS, 008GMW004FMSD, 008GMW004FMD, 060GMW01LS, 060GMW02LF, 060GMW02LFRE, 060HMW02LF, 060HMW02LFRE, 060GMW02LS, 060GMW03LF, 060GMW03LS, 060GMW04LS, 060GMW05LS, 060GMW06LS, 005GMW06LS, 007GMW01LS, 060F032495, 060F032495RE, 060T032495, 005T032795, 008F032395, 005F032795, TRIP BLANK

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/04/95 at 10:25 on instrument HP5970K:

chloromethane	25.6%
bromomethane	26.2%

The results for these compounds in associated sample 008GMW004F, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/04/95 at 10:47 on instrument HP5970L:

chloromethane	25.4%
vinyl chloride	26.2%

The results for these compounds in associated sample 005GMW01UF, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

Methylene chloride was detected at 1.0 ug/L in water method blank VBLK040395K. There were no positive detections of this compound in associated samples 003GMW02LS, 005GMW05LF, 008GGM011F, 008GMW003F, 060F03295, 060GMW02LF, 060GMW02LS, 060GMW03LF and 060HMW02LF. No action was necessary.

Bromomethane was detected at 1 ug/L in water method blank VBLK040495L. The detection of this compound in associated sample 008GMW004F, which was less than 5X the blank amount was flagged as undetected (U) with the detection limit being raised to the level of contamination in the sample.

Trip Blanks and Equipment Blanks:

Acetone, carbon disulfide and chlorobenzene were detected at 9 ug/L, 2 ug/L and 1 ug/L, respectively, in field blank 005F032795. There were no associated positive sample results for these compounds, so no action was taken.

Bromomethane, acetone and chlorobanzene were detected at 1 ug.L, 7 ug/L and 1 ug/L, respectively, in field blank 008F032395. There were no associated positive sample results for these compounds, so no action was taken.

Bromomethane and chlorobenzene were both detected at 1 ug/L in field blank 060F032395. There were no positive detections of chlorobenzene in the associated samples 003GMW02LS, 005GMW05LF, 008GGMW011F, 060GMW02LF and 060HMW02LF. Associated positive detections of bromomethane below 5X the blank contamination were flagged as undetected (U) with the laboratory results being replaced with the detection limit.

Bromomethane was detected at 1 ug.L in trip blank 060T032495. There were no associated positive sample results for these compounds, so no action was taken.

Chlorobenzene was detected at 1 ug.L in trip blank 060F032495. There were no associated positive sample results for these compounds, so no action was taken.

Acetone was detected at 2 ug/L in equipment rinsate blank 003E032095 (analyzed with SDG1345). Associated positive detections of acetone below 10X the blank contamination were flagged as undetected with the detection limit being raised to the level of contamination in each sample.

TIC's:

There were no TIC's reported in the method blanks for this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met, so no action was taken.

VI.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

All MS / MSD criteria were met. No action was required.

VII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate samples 060GMW02LF and 060HMW02LF. No action was required.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for field blanks 060T032495, TRIP BLANK, 060F032495, 005T032795 and 005F032795 were not contained in the SDG database. All laboratory data were acceptable with qualification.

SEMIVOLATILE ORGANICS

I.) Holding Times:

The number of days between sample date and extraction date exceeded the 14 day QC limit for the following samples:

060F032495RE	34 days
060GMW02LFRE	28 days
060HMW02LFRE	28 days

The results for samples 060GMW02LFRE and 060HMW02LFRE, which consisted entirely of non-detects, were flagged as estimated (UJ). The results for 060F032495RE, which consisted entirely of non-detects, were rejected (R) since the number of days exceeded the QC limit by more than 2X.

II.) GC/MS Tuning:

All GC/MS Tuning criteria were met, so no action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) of hexachlorocyclopentadiene (43.7%) exceeded the 30% QC limit for the initial calibration run on 2/21/95 on instrument HP5970F. The non-detect results for this compound in associated samples 008GMW003F and 008GMW004F required no qualification.

The Percent Relative Standard Deviations (%RSD's) of the following compounds exceeded the 30% QC limit for the initial calibration run on 4/28/95 on instrument HP5970F:

hexachlorocyclopentadiene	35.2%
2,4-dinitrophenol	32.1%

There were no positive results for these compounds in the associated samples. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/13/95 at 16:41 on instrument HP5970F:

2,2'-oxybis(1-chloropropane)	27.9%
2-nitroaniline	26.0%
2,4-dinitrophenol	37.2%
4-nitrophenol	32.4%
pentachlorophenol	31.3%

The results for these compounds in associated samples 008GMW003F and 008GMW004F, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/12/95 at 14:38 on instrument HP5970J:

4-chloroaniline	71.7%
n-nitrosodiphenylamine	72.6%

The results for these compounds in associated samples 003GMW02LS, 005GMW05LF, 008GGM011F, 060GMW02LF, 060HMW02LF, 060GMW02LS and 060GMW03LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Difference (%D) of 4,6-dinitro-2-methylphenol (26.4%) exceeded the 25% QC limit for the continuing calibration run on 4/13/95 at 14:53 on instrument HP5970J. The results for this compound in associated samples 060GMW01LS, 005GMW03LS, 005GMW06LS, 060GMW03LS, 060GMW04LS, 060GMW05LS, 060GMW06LS and 005GMW01UF, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

Bis(2-ethylhexyl)phthalate was detected at 2 ug/L in water method blank SBLK033195J. The positive results for this compound in associated samples 005GMW01UF, 005GMW03LS, 005GMW06LS, 060GMW01LS, 060GMW03LS, 060GMW04LS, 060GMW05LS and 060GMW06LS less than 10X the blank amount were flagged as undetected (U) with the detection limit being raised to the level of contamination in each sample.

Field Blanks:

Phenol was detected at 3 ug/L in field blank 008F032395. There were no positive results for this compound in the associated samples, so no action was required.

V.) Surrogate Recoveries:

The Percent Recovery (%R) of terpehnyl-d14 (32%) was below the 33-141% QC limits for sample 005GMW03LS. Since only one surrogate was below the QC limits, no action was required.

The Percent Recovery (%R) of 2-fluorophenol (18%) was below the 21-110% QC limits for sample 005GMW05LF. Since only one surrogate was below the QC limits, no action was required.

The Percent Recoveries (%R's) of the following surrogates were below their respective QC limits for sample 060F032495:

Compound	%R	QC limits
2-fluorobiphenyl	6	43-116
2-fluorophenol	15	21-110
2-chlorophenol	20	33-110
1,2-dichlorobenzene-d4	0	16-110

Since the %R's of two base/neutral surrogates were less than 10%, the results for that fraction of this sample, which consisted entirely of non-detects, were rejected (R). This sample was reanalyzed with all surrogate recovery criteria met. The reanalysis was submitted on the database, but the reanalysis results were rejected due to holding time exceedance. No further action was required.

The Percent Recoveries (%R's) of the following compounds were below their respective QC limits for sample 060GMW02LF:

Compound	%R	QC limits
2-fluorophenol	7	21-110
2-chlorophenol	19	33-110

Since the %R of one surrogate was less than 10%, the results for the acid fraction of this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their respective QC limits for sample 060GMW02LFRE:

Compound	%R	QC limits
2-fluorophenol	2	21-110
2-chlorophenol	7	33-110
2,4,6-tribromophenol	4	10-123

Since the %R's of three surrogates were less than 10%, the results for the acid fraction of this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recovery (%R) of terphenyl-d14 (32%) was below the 33-141% QC limits for sample 060GMW04LS. Since only one surrogate was below the QC limits, no action was required.

The Percent Recovery (%R) of terphenyl-d14 (27%) was below the 33-141% QC limits for sample 060GMW05LS. Since only one surrogate was below the QC limits, no action was required.

The Percent Recoveries (%R's) of the following compounds were below their respective QC limits for sample 060HMW02LF:

Compound	%R	QC limits
2-fluorophenol	4	21-110
2-chlorophenol	13	33-110
2,4,6-tribromophenol	6	10-123

Since the %R's of two acid surrogates were less than 10%, the results for this fraction of this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds were below their respective QC limits for sample 060HMW02LFRE:

Compound	%R	QC limits
2-fluorophenol	1	21-110
2-chlorophenol	6	33-110
2,4,6-tribromophenol	3	10-123

Since the %R's of three acid surrogates were less than 10%, the results for this fraction of this sample, which consisted entirely of non-detects, were rejected (R).

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS/ MSD criteria were met. No action was necessary.

VII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate samples 060GMW02LF and 060HMW02LF. No action was necessary.

VIII.) Internal Standards Performance:

All Internal Standard Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met, so no action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for the field blank samples associated with this SDG were not included on the database.

The original and reanalysis acid fraction results for samples 060GMW02LF and 060HMW02LF were rejected due to low (<10%) surrogate recoveries. The acid fraction results for sample 060F032495 were rejected due to low (<10%) surrogate recoveries. The results for sample 060F032495RE were rejected (R) due to excessive holding time exceedance. All remaining laboratory data were acceptable with qualification.

PESTICIDES/PCB's

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was required.

III.) Calibration:

The Percent Difference (%D) of methoxychlor (25.2%) exceeded the 25% QC limit for the continuing calibration run on 4/09/95 at 18:51 on primary column RTX35. The results for this compound in associated samples 005GMW03LS, 005GMW06LS, 060GWM03LS, 060GWM04LS, 060GWM05LS, 060GWM06LS and 005GMW01UF, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was necessary.

VI.) Matrix Spike/Matrix Spike Duplicate:

The Percent Recovery (%R) of endosulfan sulfate in sample 008GMW004FMSD (25%) was below the 26-144% QC limits The non-detect result for this compound in associated sample 008GMW04F was flagged as estimated (UJ).

VII.) TCL Compound Identification:

Pesticide/PCB Identification Summary (PIS):

All PIS criteria were met. No action was required.

VIII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate samples 060GMW02LF and 060HMW02LF. No action was required.

IX.) Pesticide Cleanup Check:

Florisil Cartridge Check:

All criteria were met, so no action was taken.

Gel Permeation Chromatography (GPC):

All GPC criteria were met, so no action was necessary.

X.) Overall Assessment of Data/General:

All data were acceptable with qualification.

ORGANOPHOSPHORUS PESTICIDES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) of the following compounds exceeded the 20% QC limit for the initial calibration run on 4/05/95:

alpha mevinphos	28.3%
fensulfothion	31.9%
guthion	26.5%

The non-detect results for these compounds in the associated samples (all samples for this SDG) were flagged as estimated (UJ).

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/11/95 at 01:17:

Compound	%D
ethoprop	35.3
phorate	26.9
diazinon	27.9
fenthion	41.1
chlorpyrifos	25.8
trichloronate	25.9
merphos	37.0
tokuthion	33.8
sulprofos	28.0
coumophos	127

The results for these compounds in associated samples 003GMW02LS, 005GMW05LF, 008GGM011F, 008GMW003F, 008GMW004F and 060GMW02LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/11/95 at 21:07:

Compound	%D
ethoprop	30.8
phorate	29.6
disulfoton	32.5
merphos	52.3
tokuthion	35.8
sulprofos	32.4
coumophos	121

The results for these compounds in associated samples 003GMW02LS, 005GMW05LF, 008GGM011F, 008GMW003F, 008GMW004F, 060GMW02LF, 060HMW02LF, 060GMW02LS, 060GMW03LF, 005GMW03LS, 060GMW01LS, 060GMW03LS, 060GMW04LS, 060GMW05LS, 060GMW06LS and 005GMW06LS, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

V.) Surrogate Recoveries:

The Percent Recovery (%R) of the surrogate for sample 005GMW01UF (144%) exceeded the 8-134% QC limits. All results for this sample, which consisted entirely of non-detects, were flagged as estimated (UJ).

VI.) Laboratory Control Sample

The Percent Recoveries (%R's) of the following compounds in NLCS10330A were outside the 40-150%

QC limits:

naled	44.3%
merphos	31.0%
fensulfothion	163%
coumophos	202%

All results for naled in the associated samples, which consisted entirely of non-detects, were flagged as estimated (UJ). There were no positive results for fensulfothion in the associated samples. All results for the other two compounds, which consisted entirely of non-detects, in the associated samples were previously flagged based on the associated continuing calibrations. No further action was necessary.

VII.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

The Percent Recoveries (%R's) and Relative Percent Differences (RPD's) of the following compounds were outside the 50-140% and 15% QC limits, respectively, for samples 008GMW004FMS and 008GMW004FMSD:

Compound	MS %R	MSD %R	RPD
o,demeton			18
naled			20
disulfoton			18
coumophos	200	240	18
fensulfothion		180	18
chlorpyrifos			17
merphos	18		131
stirphos			23
guthion			25

The results for these compounds in associated sample 008GMW004F, which consisted entirely of non-detects were flagged as estimated (UJ).

VIII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

IX.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate samples 060GMW02LF and 060HMW02LF. No action was required.

X.) Overall Assessment of Data/General:

All data were acceptable with qualification.

HERBICIDES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviations (%RSD's) of the following compounds exceeded the 20% QC limit for the initial calibration run on 3/30/95:

MCPP	34.9%
dinoseb	45.8%

Since there were no positive results for these compounds in the associated samples, no action was taken.

Continuing Calibration:

All Continuing Calibration criteria were met. No action was required.

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

The Relative Percent Differences (RPD's) of the following compounds exceeded the 20% QC limit for samples 008GMW004FMS and 008GMW004FMSD:

dalapon	69%
2,4,5-T	27%
dinoseb	60%

All results for these compounds in associated sample 008GMW004F, which consisted entirely of non-detects, were flagged as estimated (UJ).

VII.) LCS Recoveries:

The Percent Recovery (%R) of MCPP (159%) was outside the 10-150% QC limits for LCS sample ESTSPK0405. There were no associated positive detections of MCPP, so no action was necessary.

The Percent Recoveries (%R's) of MCPP (218%) and MCPA (210%) exceeded the 10-150% QC limits for LCS sample ESTSPK0413. Since there were no positive results for these compounds in the associated samples, no action was taken.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate samples 060GMW02LF and 060HMW02LF associated with this SDG. No action was required.

IX.) Overall Assessment of Data/General:

The results for the field blanks associated with this SDG were not submitted in the database. All laboratory data were acceptable with qualification.

TOTAL METALS and CYANIDE

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was required.

III.) Blanks:

The following blank results represent the highest detections associated with the samples and were used for data qualification:

Blank Type/ID#	Analyte	Max. Conc.	Action Level ug/L
PB	calcium	105 ug/L	525
PB	iron	15.9 ug/L	79.5
CCB1	tin	45.9 ug/L	230

PB = Preparation Blank, CCB = Continuing Calibration Blank

All results greater than the IDL but less than 5X the blank amount (Action Level, ug/L for water samples) for which the contaminated blank is an associated calibration or field blank were flagged as undetected (U).

The following analytes had negative results with absolute values greater than the IDL:

Blank Type/ID#	Analyte	Neg. Conc.	5X Conc. (ug/L)
CCB1	arsenic	-2.9 ug/L	14.5
CCB1	zinc	-7.3 ug/L	36.5

CCB = Continuing Calibration Blank

All associated positive sample results less than 5X the absolute value of the negative blank result and all non-detects were flagged as estimated (J) and (UJ).

IV.) ICP Interference Check Sample Results:

All Interference Check Sample criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

All Serial Dilution criteria were met, so no action was necessary.

VI.) Laboratory Control Samples (LCS):

All Laboratory Control Sample criteria were met. No action was required.

VII.) Duplicate Sample Analysis:

The Relative Percent Difference (RPD) of lead (111%) exceeded the 20% QC limit for duplicate sample 008GMW004F. The positive result for this analyte in the associated samples were flagged as estimated (J).

VIII.) Matrix Spike Recoveries:

The Percent Recoveries (%R's) of the following analytes were below the 75-125% QC limit for sample 008GMW004MS:

lead	53.2%
silver	70.8%

The associated positive and non-detected results for lead and silver in the associated samples were flagged as estimated (J) and (UJ).

IX.) Field Duplicates:

The Relative Percent Difference (RPD) for barium (10.1%) in field duplicate samples 060GMW02LF and 060HMW02LF was within the 30% QC limit. No action was required.

X.) Furnace Atomic Absorption QC:

All GFAA criteria were met. No action was necessary.

XI.) Sample Result, Calculation/Transcription Verification:

All criteria were met, so no action was taken.

XII.) Quarterly Verification of Instrumental Parameters:

All criteria met, so no action was taken.

XIII.) Overall Assessment of Data/General:

All laboratory data were acceptable with qualification.

TOTAL PETROLEUM HYDROCARBONS

I.) Holding Times:

All samples were extracted and analyzed within the required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no calculable RPD's in the field duplicates associated with this SDG. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

HARDNESS

I.) Holding Times:

All samples were analyzed within the required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

E/A&H VALIDATION ADDENDUM

Validation Subcontractor:	Validata Chemical Services, Inc.
Site Name:	NAS Memphis, Millington, Tennessee
CTO and Subtask No.:	0094-04730
Laboratory:	NET Atlantic, Inc.
Sample Delivery Group:	1353
Matrix:	Water
Analysis:	Semivolatile Organic Compounds
Samples:	060GMW02LF, 060HMW02LF
E/A&H Project Chemist:	Charlene M. Thompson CMJ

Bis(2-ethylhexyl)phthalate was detected in field duplicates 060GMW02LF and 060HMW02LF at concentrations of 10U and 17 μg/L, respectively. The validators reported that "there were no calculable Relative Percent Differences (RPDs)" for these field duplicate samples.

The RPD was calculated to be at least 51.8%, which exceeds the acceptable 30% control limit for aqueous samples. Because one result was nondetect and the second result was greater than the quantitation limit, samples 060GMW02LF and 060HMW02LF were qualified as estimated (10UJ and 17J, respectively).

E/A&H VALIDATION SUMMARY REPORT

Site Name: NAS Memphis, Millington, Tennessee
CTO and Subtask No.: 0094-04730
Laboratory: NET Atlantic, Inc.
Sample Delivery Group: 1353
Matrix: Water

Samples and Analysis:

Sample ID	SULFATE
005GMW03LS	X

VALIDATION RESULTS

All samples were received by the laboratory intact and with the proper documentation on March 25, 1995. The following section summarizes the data validation results.

Sulfate Fraction

1. All holding times, laboratory control samples, method blanks, initial calibration, calibration verifications, matrix spikes, and laboratory duplicates were acceptable.

2. No field duplicates were analyzed for this SDG. No problems were encountered during review of sample result verification.

E/A&H VALIDATION ADDENDUM

Validation Subcontractor:	Validata Chemical Services, Inc.
Site Name:	NAS Memphis, Millington, Tennessee
CTO and Subtask No.:	0094-04730
Laboratory:	NET Atlantic, Inc.
Sample Delivery Group:	1353
Matrix:	Water
Analysis:	Semivolatile Organic Compounds
Samples:	060F032495
E/A&H Project Chemist:	Charlene M. Thompson CMT

Sample 060F032495 was identified as a field blank. Field-derived blanks were used with method blanks to assess possible cross-contamination of field investigative samples. No action was taken if compounds were detected in the method blanks associated with the field-derived blanks or if QC parameters were not met in the field-derived blanks. The field blanks were used to assess cross-contamination in investigative samples only.

Validata qualified field blank 060F032495 as unusable (UR) due to surrogates 2-fluorobiphenyl and 1,2-dichlorobenzene-d4 having percent recoveries less than 10%. They also qualified the reanalysis of 060F032495 as unusable (UR) because the holding time was missed by 34 days. Validata was told that the only purpose for the field QC was to assess cross-contamination in investigative samples. The results for this field blank were all nondetect. Therefore, E/A&H has removed the unusable qualifiers from field blank 060F032495.

E/A&H VALIDATION ADDENDUM

Validation Subcontractor:	Validata Chemical Services, Inc.
Site Name:	NAS Memphis, Millington, Tennessee
CTO and Subtask No.:	0094-04730
Laboratory:	NET Atlantic, Inc.
Sample Delivery Group:	1353
Matrix:	Water
Analysis:	Semivolatile Organic Compounds
Samples:	060GMW02LF, 060HMW02LF
E/A&H Project Chemist:	Charlene M. Thompson CMT

Bis(2-ethylhexyl)phthalate was detected in field duplicates 060GMW02LF and 060HMW02LF at concentrations of 10U and 17 μg/L, respectively. The validators reported that there were no calculable Relative Percent Differences (RPDs) for these field duplicate samples.

The RPD was calculated to be at least 51.8%, which exceeds the acceptable 30% control limit for aqueous samples. Because one result was nondetect and the second result was greater than the quantitation limit, samples 060GMW02LF and 060HMW02LF were qualified as estimated (10UJ and 17J, respectively).

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 HERB													
	SAMPLE ID ------->	003-G-MW02-LS		005-G-MW01-UF		005-G-MW03-LS		005-G-MW05-LF		005-G-MW06-LS		008-G-GM01-1F	
	ORIGINAL ID ----->	003GMW02LS		005GMW01UF		005GMW03LS		005GMW05LF		005GMW06LS		008GGM011F	
	LAB SAMPLE ID --->	120517		120669		120608		120518		120609		120520	
	SAMPLE DATE ----->	03/23/95		03/27/95		03/24/95		03/23/95		03/24/95		03/23/95	
	DATE EXTRACTED -->	04/06/95		04/13/95		04/13/95		04/06/95		04/13/95		04/06/95	
	DATE ANALYZED --->	04/06/95		04/14/95		04/13/95		04/06/95		04/13/95		04/06/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
94-82-6	2,4-DB	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
88-85-7	Dinoseb	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
93-76-5	2,4,5-T	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
93-72-1	2,4,5-TP (Silvex)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
75-99-0	Dalapon	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1918-00-9	Dicamba	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
120-36-5	Dichlorprop	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
94-74-6	MCPA	47.	U	47.	U	47.	U	47.	U	47.	U	47.	U
93-65-2	MCPP	47.	U	47.	U	47.	U	47.	U	47.	U	47.	U
94-75-7	2,4-D	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 HERB													
	SAMPLE ID ------->	008-G-MW00-3F		008-G-MW00-4F+		060-G-MW01-LS		060-G-MW02-LF		060-H-MW02-LF		060-G-MW02-LS	
	ORIGINAL ID ----->	008GMW003F		008GMW004F		060GMW01LS		060GMW02LF		060HMW02LF		060GMW02LS	
	LAB SAMPLE ID --->	120521		120522		120611		120524		120525		120526	
	SAMPLE DATE ----->	03/23/95		03/23/95		03/24/95		03/23/95		03/23/95		03/23/95	
	DATE EXTRACTED -->	04/06/95		04/06/95		04/13/95		04/06/95		04/06/95		04/06/95	
	DATE ANALYZED --->	04/06/95		04/07/95		04/13/95		04/07/95		04/07/95		04/07/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
94-82-6	2,4-DB	0.47	U	0.72	U	0.47	U	0.47	U	0.47	U	0.47	U
88-85-7	Dinoseb	0.24	U	0.63	UJ	0.24	U	0.24	U	0.24	U	0.24	U
93-76-5	2,4,5-T	0.05	U	0.25	UJ	0.05	U	0.05	U	0.05	U	0.05	U
93-72-1	2,4,5-TP (Silvex)	0.05	U	0.19	U	0.05	U	0.05	U	0.05	U	0.05	U
75-99-0	Dalapon	1.1	U	1.1	UJ	1.1	U	1.1	U	1.1	U	1.1	U
1918-00-9	Dicamba	0.05	U	0.21	U	0.05	U	0.05	U	0.05	U	0.05	U
120-36-5	Dichlorprop	0.47	U	2.5	U	0.47	U	0.47	U	0.47	U	0.47	U
94-74-6	MCPA	47.	U	220.	U	47.	U	47.	U	47.	U	47.	U
93-65-2	MCPP	47.	U	190.	U	47.	U	47.	U	47.	U	47.	U
94-75-7	2,4-D	0.47	U	2.5	U	0.47	U	0.47	U	0.47	U	0.47	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 HERB											
	SAMPLE ID ------->	060-G-MW03-LF		060-G-MW03-LS		060-G-MW04-LS		060-G-MW05-LS		060-G-MW06-LS	
	ORIGINAL ID ----->	060GMW03LF		060GMW03LS		060GMW04LS		060GMW05LS		060GMW06LS	
	LAB SAMPLE ID --->	120527		120612		120613		120614		120615	
	SAMPLE DATE ----->	03/23/95		03/24/95		03/24/95		03/24/95		03/24/95	
	DATE EXTRACTED -->	04/06/95		04/13/95		04/13/95		04/13/95		04/13/95	
	DATE ANALYZED --->	04/07/95		04/14/95		04/14/95		04/14/95		04/14/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter										
94-82-6	2,4-DB	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
88-85-7	Dinoseb	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
93-76-5	2,4,5-T	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
93-72-1	2,4,5-TP (Silvex)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
75-99-0	Dalapon	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1918-00-9	Dicamba	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
120-36-5	Dichlorprop	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
94-74-6	MCPA	47.	U	47.	U	47.	U	47.	U	47.	U
93-65-2	MCPP	47.	U	47.	U.	47.	U	47.	U	47.	U
94-75-7	2,4-D	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 Hardness							
	SAMPLE ID ------->	005-G-MW03-LS	060-G-MW01-LS				
	ORIGINAL ID ----->	005GMW03LS	060GMW01LS				
	LAB SAMPLE ID --->	120608	120611				
	SAMPLE DATE ----->	03/24/95	03/24/95				
	DATE EXTRACTED -->	04/17/95	04/17/95				
	DATE ANALYZED --->	04/22/95	04/22/95				
	MATRIX ---------->	Water	Water				
	UNITS ---------->	mg/L A	mg/L A				
CAS #	Parameter						
9999900-03-3	Hardness as CaCO3	388.	843.				

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
		SAMPLE ID ------->	003-G-MW02-LS		005-G-MW01-UF		005-G-MW03-LS		005-G-MW03-LS		005-G-MW05-LF		005-G-MW06-LS	
		ORIGINAL ID ----->	003GMW02LS		005GMW01UF		005GMW03LS		005GMW03LS		005GMW05LF		005GMW06LS	
		LAB SAMPLE ID --->	9-120532S		7-120671S		120608		4-120616S		9-120533S		4-120617S	
		ID FROM REPORT -->	003GMW02LS		005GMW01UF		005GMW03LS		005GMW03LS		005GMW05LF		005GMW06LS	
		SAMPLE DATE ----->	03/23/95		03/27/95		03/24/95		03/24/95		03/24/95		03/24/95	
		DATE EXTRACTED -->					04/17/95							
		DATE ANALYZED --->					04/20/95							
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		ug/L		UG/L		UG/L		UG/L	
CAS #	Parameter		1353	VAL	1353	VAL	1353	VAL	1353	VAL	1353	VAL	1353	VAL
SB	Antimony		40.	U	40.	U	NR		40.	U	40.	U	40.	U
AS	Arsenic		3.	J	2.	UJ	NR		8.8	J	2.	UJ	8.3	J
BA	Barium		72.8	J	48.6	J	NR		394.		214.		714.	
BE	Beryllium		1.	U	1.	U	NR		1.	U	1.	U	2.8	J
CD	Cadmium		3.	U	3.	U	NR		6.1		3.	U	18.1	
CR	Chromium		6.3	J	5.	U	NR		19.4		5.	U	59.9	
CO	Cobalt		5.	U	5.	U	NR		7.4	J	6.9	J	37.2	J
CU	Copper		13.9	J	5.	U	NR		26.9		6.	J	89.6	
PB	Lead		5.4	J	32.8	J	NR		13.4	J	5.4	J	56.4	J
HG	Mercury		0.2	U	0.2	U	NR		0.2	U	0.2	U	0.2	U
NI	Nickel		15.	U	15.	U	NR		37.5	J	15.	U	94.2	
SE	Selenium		2.	U	2.	U	NR		2.	U	2.	U	2.	U
AG	Silver		3.	UJ	3.	UJ	NR		3.	UJ	3.	UJ	3.	UJ
TL	Thallium		2.	U	2.	U	NR		2.	U	2.	U	2.	U
V	Vanadium		9.1	J	4.	U	NR		29.3	J	4.	U	102.	
ZN	Zinc		53.6		6.4	J	NR		130.		12.5	J	551.	
SN	Tin		15.	U	17.6	U	NR		15.	U	15.	U	15.	U
AL	Aluminum		NR		NR		NR		NR		NR		NR	
CA	Calcium		NR		NR		83300.		NR		NR		NR	
FE	Iron		NR		NR		29700.		NR		NR		NR	
MG	Magnesium		NR		NR		43800.		NR		NR		NR	
MN	Manganese		NR		NR		1250.		NR		NR		NR	
NA	Sodium		NR		NR		NR		NR		NR		NR	
K	Potassium		NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL																	
	SAMPLE ID ------->	008-G-GM01-1F		008-G-MW00-3F		008-G-MW00-4F		060-G-MW01-LS		060-G-MW01-LS		060-G-MW02-LF	
	ORIGINAL ID ----->	008GGM011F		008GMW003F		008GMW004F		060GMW01LS		060GMW01LS		060GMW02LF	
	LAB SAMPLE ID --->	9-120535S		9-120536S		9-120537S		120611		4-120619S		9-120539S	
	ID FROM REPORT -->	008GGM011F		008FMW003F		008GMW004F		060GMW01LS		060GMW01LS		060GMW02LF	
	SAMPLE DATE ----->	03/23/95		03/22/95		03/23/95		03/24/95		03/24/95		03/23/95	
	DATE EXTRACTED -->							04/17/95					
	DATE ANALYZED --->							04/20/95					
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		ug/L		UG/L		UG/L	
CAS #	Parameter	1353	VAL	1353	VAL	1353	VAL	1353	VAL	1353	VAL	1353	VAL
SB	Antimony	40.	U	40.	U	40.	U	NR		40.	U	40.	U
AS	Arsenic	2.	UJ	2.	UJ	2.	UJ	NR		11.3	J	2.	UJ
BA	Barium	50.1	J	57.4	J	53.3	J	NR		673.		736.	
BE	Beryllium	1.	U	1.	U	1.	U	NR		1.4	J	1.	U
CD	Cadmium	3.	U	3.	U	3.	U	NR		17.3		3.	U
CR	Chromium	8.2	J	5.7	J	5.	U	NR		37.1		5.	U
CO	Cobalt	5.	U	5.	U	5.	U	NR		23.4	J	5.	U
CU	Copper	9.7	J	5.8	J	5.2	J	NR		76.5		5.	U
PB	Lead	23.4	J	2.7	J	33.2	J	NR		111.	J	4.9	J
HG	Mercury	0.2	U	0.2	U	0.2	U	NR		0.2	U	0.2	U
NI	Nickel	15.	U	15.	U	15.	U	NR		56.1		15.	U
SE	Selenium	2.	U	2.	U	2.	UJ	NR		2.	U	2.	U
AG	Silver	3.	UJ	3.	UJ	3.	UJ	NR		3.6	J	3.	UJ
TL	Thallium	2.	U	2.	U	2.	U	NR		2.	U	2.	U
V	Vanadium	11.4	J	4.	U	4.	U	NR		61.8		4.	U
ZN	Zinc	12.2	J	6.	UJ	6.	UJ	NR		616.		6.	UJ
SN	Tin	15.	U	15.	U	15.	U	NR		39.5	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		203000.		NR		NR	
FE	Iron	NR		NR		NR		64900.		NR		NR	
MG	Magnesium	NR		NR		NR		81700.		NR		NR	
MN	Manganese	NR		NR		NR		2760.		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL																		
	SAMPLE ID ------->	060-H-MW02-LF		060-G-MW02-LS		060-G-MW03-LF		060-G-MW03-LS		060-G-MW04-LS		060-G-MW05-LS	
	ORIGINAL ID ----->	060HMW02LF		060GMW02LS		060GMW03LF		060GMW03LS		060GMW04LS		060GMW05LS	
	LAB SAMPLE ID --->	9-120540S		9-120541S		9-120542S		4-120620S		4-120621S		4-120622S	
	ID FROM REPORT -->	060HMW02LF		060GMW02LS		060GMW03LF		060GMW03LS		060GMW04LS		060GMW05LS	
	SAMPLE DATE ----->	03/23/95		03/23/95		03/23/95		03/24/95		03/24/95		03/24/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	1353	VAL	1353	VAL	1353	VAL	1353	VAL	1353	VAL	1353	VAL
SB	Antimony	40.	U	40.	U	40.	U	40.	U	40.	U	40.	U
AS	Arsenic	2.	UJ	2.	UJ	2.	UJ	25.6		6.	J	2.	UJ
BA	Barium	665.		71.7	J	105.	J	987.		317.		111.	J
BE	Beryllium	1.	U	1.	U	1.	U	4.8	J	1.	U	1.	U
CD	Cadmium	3.	U	3.	U	3.	U	36.9		7.		3.	U
CR	Chromium	5.	U	5.	U	5.	U	108.		21.6		5.	U
CO	Cobalt	5.	U	5.	U	5.	J	73.4		9.	J	5.	U
CU	Copper	5.	U	6.8	J	6.4	J	181.		33.3		8.1	J
PB	Lead	2.	UJ	2.	UJ	10.5	J	127.	J	20.6	J	10.3	J
HG	Mercury	0.2	U	0.2	U	0.2	U	0.31		0.2	U	0.2	U
NI	Nickel	15.	U	15.	U	15.	U	180.		43.4		15.	U
SE	Selenium	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
AG	Silver	3.	UJ	3.	UJ	3.	UJ	3.1	J	3.	UJ	3.	UJ
TL	Thallium	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
V	Vanadium	4.	U	4.	U	4.	U	198.		36.6	J	9.6	J
ZN	Zinc	6.	UJ	6.	UJ	6.	UJ	643.		180.		35.8	J
SN	Tin	15.8	U	15.	U	15.	U	22.6	U	15.	U	15.	U
AL	Aluminum	NR		NR		NR		NR		NR		NR	
CA	Calcium	NR		NR		NR		NR		NR		NR	
FE	Iron	NR		NR		NR		NR		NR		NR	
MG	Magnesium	NR		NR		NR		NR		NR		NR	
MN	Manganese	NR		NR		NR		NR		NR		NR	
NA	Sodium	NR		NR		NR		NR		NR		NR	
K	Potassium	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL							
	SAMPLE ID ------->	060-G-MW06-LS					
	ORIGINAL ID ----->	060GMW06LS					
	LAB SAMPLE ID --->	4-120623S					
	ID FROM REPORT -->	060GMW06LS					
	SAMPLE DATE ----->	03/24/95					
	MATRIX ---------->	Water					
	UNITS ---------->	UG/L					
CAS #	Parameter	1353	VAL				
SB	Antimony	40.	U				
AS	Arsenic	8.5	J				
BA	Barium	368.					
BE	Beryllium	1.2	J				
CD	Cadmium	9.2					
CR	Chromium	32.1					
CO	Cobalt	15.6	J				
CU	Copper	50.5					
PB	Lead	19.4	J				
HG	Mercury	0.2	U				
NI	Nickel	48.1					
SE	Selenium	2.	U				
AG	Silver	3.	UJ				
TL	Thallium	10.	U				
V	Vanadium	63.3					
ZN	Zinc	223.					
SN	Tin	20.5	U				
AL	Aluminum	NR					
CA	Calcium	NR					
FE	Iron	NR					
MG	Magnesium	NR					
MN	Manganese	NR					
NA	Sodium	NR					
K	Potassium	NR					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 METAL-CN						
SAMPLE ID ------->	003-G-MW02-LS	005-G-MW01-UF	005-G-MW03-LS	005-G-MW05-LF	005-G-MW06-LS	008-G-GM01-1F
ORIGINAL ID ----->	003GMW02LS	005GMW01UF	005GMW03LS	005GMW05LF	005GMW06LS	008GGM011F
LAB SAMPLE ID --->	120517	120669	120608	120518	120609	120520
SAMPLE DATE ----->	03/23/95	03/27/95	03/24/95	03/23/95	03/24/95	03/23/95
DATE EXTRACTED -->	03/31/95	04/06/95	03/31/95	03/31/95	03/31/95	03/31/95
DATE ANALYZED --->	04/03/95	04/10/95	04/03/95	04/03/95	04/03/95	04/03/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 METAL-CN						
SAMPLE ID ------->	008-G-MW00-3F	008-G-MW00-4F+	060-G-MW01-LS	060-G-MW02-LF	060-H-MW02-LF	060-G-MW02-LS
ORIGINAL ID ----->	008GMW003F	008GMW004F	060GMW01LS	060GMW02LF	060HMW02LF	060GMW02LS
LAB SAMPLE ID --->	120521	120522	120611	120524	120525	120526
SAMPLE DATE ----->	03/23/95	03/23/95	03/24/95	03/23/95	03/23/95	03/23/95
DATE EXTRACTED -->	03/31/95	03/30/95	03/31/95	03/31/95	03/31/95	03/31/95
DATE ANALYZED --->	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 METAL-CN						
SAMPLE ID ------->	060-G-MW03-LF	060-G-MW03-LS	060-G-MW04-LS	060-G-MW05-LS	060-G-MW06-LS	
ORIGINAL ID ----->	060GMW03LF	060GMW03LS	060GMW04LS	060GMW05LS	060GMW06LS	
LAB SAMPLE ID --->	120527	120612	120613	120614	120615	
SAMPLE DATE ----->	03/23/95	03/24/95	03/24/95	03/24/95	03/24/95	
DATE EXTRACTED -->	03/31/95	03/31/95	03/31/95	03/31/95	03/31/95	
DATE ANALYZED --->	04/03/95	04/03/95	04/03/95	04/03/95	04/03/95	
MATRIX ---------->	Water	Water	Water	Water	Water	
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 OP PEST													
	SAMPLE ID ------->	003-G-MW02-LS		005-G-MW01-UF		005-G-MW03-LS		005-G-MW05-LF		005-G-MW06-LS		008-G-GM01-1F	
	ORIGINAL ID ----->	003GMW02LS		005GMW01UF		005GMW03LS		005GMW05LF		005GMW06LS		008GGM011F	
	LAB SAMPLE ID --->	120517		120669		120608		120518		120609		120520	
	SAMPLE DATE ----->	03/23/95		03/27/95		03/24/95		03/23/95		03/24/95		03/23/95	
	DATE EXTRACTED -->	04/08/95		04/11/95		04/10/95		04/08/95		04/10/95		04/08/95	
	DATE ANALYZED --->	04/11/95		04/12/95		04/12/95		04/11/95		04/12/95		04/11/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	U	2.5	UJ
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
333-41-5	Diazinon	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	U	2.5	UJ
62-73-7	Dichlorvos	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
298-04-4	Disulfoton	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	U	2.5	UJ
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	2.5	UJ	2.8	J	2.5	UJ	3.	J	2.5	UJ
298-00-0	Methyl parathion	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
298-02-2	Phorate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
299-84-3	Ronnel	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	U	2.5	UJ	2.5	U	2.5	UJ
126-75-0	Demeton,S	2.5	U	2.5	UJ	2.5	U	2.5	U	2.5	U	2.5	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 OP PEST													
	SAMPLE ID ------->	008-G-MW00-3F		008-G-MW00-4F+		060-G-MW01-LS		060-G-MW02-LF		060-H-MW02-LF		060-G-MW02-LS	
	ORIGINAL ID ----->	008GMW003F		008GMW004F		060GMW01LS		060GMW02LF		060HMW02LF		060GMW02LS	
	LAB SAMPLE ID --->	120521		120522		120611		120524		120525		120526	
	SAMPLE DATE ----->	03/23/95		03/23/95		03/24/95		03/23/95		03/23/95		03/23/95	
	DATE EXTRACTED -->	04/08/95		04/08/95		04/10/95		04/10/95		04/10/95		04/10/95	
	DATE ANALYZED --->	04/11/95		04/11/95		04/12/95		04/11/95		04/11/95		04/11/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter												
86-50-0	Guthion	5.	UJ	1.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	UJ	1.	UJ	2.5	U	2.5	UJ	2.5	U	2.5	U
56-72-4	Coumaphos	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	U	1.	UJ	2.5	U	2.5	U	2.5	U	2.5	U
333-41-5	Diazinon	2.5	UJ	1.	UJ	2.5	U	2.5	UJ	2.5	U	2.5	U
62-73-7	Dichlorvos	2.5	U	1.	U	2.5	U	2.5	U	2.5	U	2.5	U
298-04-4	Disulfoton	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	UJ	1.	UJ	2.5	U	2.5	UJ	2.5	U	2.5	U
150-50-5	Merphos	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
298-00-0	Methyl parathion	2.5	U	1.	U	2.5	U	2.5	U	2.5	U	2.5	U
298-02-2	Phorate	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
299-84-3	Ronnel	2.5	U	1.	U	2.5	U	2.5	U	2.5	U	2.5	U
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	U	1.	UJ	2.5	U	2.5	U	2.5	U	2.5	U
34643-46-4	Tokuthion	2.5	UJ	1.	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	1.	UJ	2.5	U	2.5	UJ	2.5	U	2.5	U
126-75-0	Demeton,S	2.5	U	1.	U	2.5	U	2.5	U	2.5	U	2.5	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 OP PEST											
	SAMPLE ID ------->	060-G-MW03-LF		060-G-MW03-LS		060-G-MW04-LS		060-G-MW05-LS		060-G-MW06-LS	
	ORIGINAL ID ----->	060GMW03LF		060GMW03LS		060GMW04LS		060GMW05LS		060GMW06LS	
	LAB SAMPLE ID --->	120527		120612		120613		120614		120615	
	SAMPLE DATE ----->	03/23/95		03/24/95		03/24/95		03/24/95		03/24/95	
	DATE EXTRACTED -->	04/10/95		04/10/95		04/10/95		04/11/95		04/11/95	
	DATE ANALYZED --->	04/12/95		04/12/95		04/12/95		04/12/95		04/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter										
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	5.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
333-41-5	Diazinon	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
62-73-7	Dichlorvos	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
298-04-4	Disulfoton	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
55-38-9	Fenthion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
300-76-5	Naled	2.5	UJ	2.5	UJ	3.2	J	7.6	J	2.5	UJ
298-00-0	Methyl parathion	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
298-02-2	Phorate	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
299-84-3	Ronnel	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
126-75-0	Demeton,S	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 PEST																			
	SAMPLE ID ------->	003-G-MW02-LS			005-G-MW01-UF			005-G-MW03-LS			005-G-MW05-LF			005-G-MW06-LS			007-G-MW01-LS		
	ORIGINAL ID ----->	003GMW02LS			005GMW01UF			005GMW03LS			005GMW05LF			005GMW06LS			007GMW01LS		
	LAB SAMPLE ID --->	120532			120671			120616			120533			120617			120672		
	SAMPLE DATE ----->	03/23/95			03/27/95			03/24/95			03/23/95			03/24/95			03/23/95		
	DATE EXTRACTED -->	03/29/95			04/03/95			03/30/95			03/29/95			03/30/95			04/03/95		
	DATE ANALYZED --->	04/08/95			04/10/95			04/09/95			04/08/95			04/09/95			04/09/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A
CAS #	Parameter																		
319-84-6	alpha-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
319-85-7	beta-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
319-86-8	delta-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
76-44-8	Heptachlor	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
309-00-2	Aldrin	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
959-98-8	Endosulfan I	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
60-57-1	Dieldrin	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-55-9	4,4'-DDE	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-20-8	Endrin	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
33213-65-9	Endosulfan II	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-54-8	4,4'-DDD	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
1031-07-8	Endosulfan sulfate	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
50-29-3	4,4'-DDT	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-43-5	Methoxychlor	0.5	U		0.5	UJ		0.5	UJ		0.5	U		0.5	UJ		0.5	U	
53494-70-5	Endrin ketone	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
7421-36-3	Endrin aldehyde	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
5103-71-9	alpha-Chlordane	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
5103-74-2	gamma-Chlordane	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
8001-35-2	Toxaphene	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
12674-11-2	Aroclor-1016	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11104-28-2	Aroclor-1221	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11141-16-5	Aroclor-1232	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
53469-21-9	Aroclor-1242	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
12672-29-6	Aroclor-1248	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11097-69-1	Aroclor-1254	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11096-82-5	Aroclor-1260	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 PEST						
SAMPLE ID ------->	008-G-GM01-1F	008-G-MW00-3F	008-G-MW00-4F	060-G-MW01-LS	060-G-MW02-LF	060-H-MW02-LF
ORIGINAL ID ----->	008GGM011F	008GMW003F	008GMW004F	060GMW01LS	060GMW02LF	060HMW02LF
LAB SAMPLE ID --->	120535	120536	120537	120619	120539	120540
SAMPLE DATE ----->	03/23/95	03/22/95	03/23/95	03/24/95	03/23/95	03/23/95
DATE EXTRACTED -->	03/29/95	03/29/95	03/29/95	03/30/95	03/30/95	03/30/95
DATE ANALYZED --->	04/08/95	04/08/95	04/08/95	04/09/95	04/09/95	04/09/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A	UG/L A

CAS #	Parameter												
319-84-6	alpha-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-85-7	beta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-86-8	delta-BHC	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
76-44-8	Heptachlor	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
309-00-2	Aldrin	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
959-98-8	Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-54-8	4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U	0.1	U	0.1	UJ	0.1	U	0.1	U	0.1	U
50-29-3	4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-43-5	Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7421-36-3	Endrin aldehyde	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
5103-71-9	alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
5103-74-2	gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12674-11-2	Aroclor-1016	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11104-28-2	Aroclor-1221	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11141-16-5	Aroclor-1232	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
53469-21-9	Aroclor-1242	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11097-69-1	Aroclor-1254	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U
11096-82-5	Aroclor-1260	1.	U	1.	U	1.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 PEST																							
	SAMPLE ID ------->	060-G-MW02-LS			060-G-MW03-LF			060-G-MW03-LS			060-G-MW04-LS			060-G-MW05-LS			060-G-MW06-LS		
	ORIGINAL ID ----->	060GMW02LS			060GMW03LF			060GMW03LS			060GMW04LS			060GMW05LS			060GMW06LS		
	LAB SAMPLE ID --->	120541			120542			120620			120621			120622			120623		
	SAMPLE DATE ----->	03/23/95			03/23/95			03/24/95			03/24/95			03/24/95			03/24/95		
	DATE EXTRACTED -->	03/30/95			03/30/95			03/30/95			03/30/95			03/30/95			03/30/95		
	DATE ANALYZED --->	04/09/95			04/09/95			04/09/95			04/09/95			04/09/95			04/09/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A
CAS #	Parameter																		
319-84-6	alpha-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
319-85-7	beta-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
319-86-8	delta-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
76-44-8	Heptachlor	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
309-00-2	Aldrin	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
959-98-8	Endosulfan I	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
60-57-1	Dieldrin	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-55-9	4,4'-DDE	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-20-8	Endrin	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
33213-65-9	Endosulfan II	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-54-8	4,4'-DDD	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
1031-07-8	Endosulfan sulfate	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
50-29-3	4,4'-DDT	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-43-5	Methoxychlor	0.5	U		0.5	U		0.5	UJ		0.5	UJ		0.5	UJ		0.5	UJ	
53494-70-5	Endrin ketone	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
7421-36-3	Endrin aldehyde	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
5103-71-9	alpha-Chlordane	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
5103-74-2	gamma-Chlordane	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
8001-35-2	Toxaphene	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
12674-11-2	Aroclor-1016	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11104-28-2	Aroclor-1221	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11141-16-5	Aroclor-1232	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
53469-21-9	Aroclor-1242	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
12672-29-6	Aroclor-1248	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11097-69-1	Aroclor-1254	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11096-82-5	Aroclor-1260	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 SVOA																			
	SAMPLE ID ------->	003-G-MW02-LS			005-G-MW01-UF			005-G-MW03-LS			005-G-MW05-LF			005-G-MW06-LS			008-G-GM01-1F		
	ORIGINAL ID ----->	003GMW02LS			005GMW01UF			005GMW03LS			005GMW05LF			005GMW06LS			008GGM011F		
	LAB SAMPLE ID --->	120532			120671			120616			120533			120617			120535		
	SAMPLE DATE ----->	03/23/95			03/27/95			03/24/95			03/23/95			03/24/95			03/23/95		
	DATE EXTRACTED -->	03/30/95			03/31/95			03/31/95			03/30/95			03/31/95			03/30/95		
	DATE ANALYZED --->	04/12/95			04/13/95			04/13/95			04/12/95			04/13/95			04/12/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A
CAS #	Parameter																		
621-64-7	N-Nitroso-di-n-propylamine	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
67-72-1	Hexachloroethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
78-59-1	Isophorone	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
88-75-5	2-Nitrophenol	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
105-67-9	2,4-Dimethylphenol	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
111-91-1	bis(2-Chloroethoxy)methane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
120-83-2	2,4-Dichlorophenol	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
120-82-1	1,2,4-Trichlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
91-20-3	Naphthalene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
106-47-8	4-Chloroaniline	10.	UJ		10.	U		10.	U		10.	UJ		10.	U		10.	UJ	
87-68-3	Hexachlorobutadiene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
59-50-7	4-Chloro-3-methylphenol	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
91-57-6	2-Methylnaphthalene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
77-47-4	Hexachlorocyclopentadiene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
88-06-2	2,4,6-Trichlorophenol	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
95-95-4	2,4,5-Trichlorophenol	25.	U		25.	U		25.	U		25.	U		25.	U		25.	U	
91-58-7	2-Chloronaphthalene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
88-74-4	2-Nitroaniline	25.	U		25.	U		25.	U		25.	U		25.	U		25.	U	
131-11-3	Dimethylphthalate	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
208-96-8	Acenaphthylene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
606-20-2	2,6-Dinitrotoluene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
99-09-2	3-Nitroaniline	25.	U		25.	U		25.	U		25.	U		25.	U		25.	U	
83-32-9	Acenaphthene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
51-28-5	2,4-Dinitrophenol	25.	U		25.	U		25.	U		25.	U		25.	U		25.	U	
100-02-7	4-Nitrophenol	25.	U		25.	U		25.	U		25.	U		25.	U		25.	U	
132-64-9	Dibenzofuran	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
121-14-2	2,4-Dinitrotoluene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
84-66-2	Diethylphthalate	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
7005-72-3	4-Chlorophenylphenylether	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
86-73-7	Fluorene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
100-01-6	4-Nitroaniline	25.	U		25.	U		25.	U		25.	U		25.	U		25.	U	
534-52-1	4,6-Dinitro-2-methylphenol	25.	U		25.	UJ		25.	UJ		25.	U		25.	UJ		25.	U	
86-30-6	N-Nitrosodiphenylamine	10.	UJ		10.	U		10.	U		10.	UJ		10.	U		10.	UJ	
101-55-3	4-Bromophenylphenylether	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
118-74-1	Hexachlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
87-86-5	Pentachlorophenol	25.	U		25.	U		25.	U		25.	U		25.	U		25.	U	
85-01-8	Phenanthrene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 SVOA													
	SAMPLE ID ------->	003-G-MW02-LS		005-G-MW01-UF		005-G-MW03-LS		005-G-MW05-LF		005-G-MW06-LS		008-G-GM01-1F	
	ORIGINAL ID ----->	003GMW02LS		005GMW01UF		005GMW03LS		005GMW05LF		005GMW06LS		008GGM011F	
	LAB SAMPLE ID --->	120532		120671		120616		120533		120617		120535	
	SAMPLE DATE ----->	03/23/95		03/27/95		03/24/95		03/23/95		03/24/95		03/23/95	
	DATE EXTRACTED -->	03/30/95		03/31/95		03/31/95		03/30/95		03/31/95		03/30/95	
	DATE ANALYZED --->	04/12/95		04/13/95		04/13/95		04/12/95		04/13/95		04/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	11.	
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 SVOA	SAMPLE ID ------->	008-G-MW00-3F		008-G-MW00-4F		060-G-MW01-LS		060-G-MW02-LF		060-H-MW02-LF		060-G-MW02-LS	
	ORIGINAL ID ----->	008GMW003F		008GMW004F		060GMW01LS		060GMW02LF		060HMW02LF		060GMW02LS	
	LAB SAMPLE ID --->	120536		120537		120619		120539		120540		120541	
	SAMPLE DATE ----->	03/22/95		03/23/95		03/24/95		03/23/95		03/23/95		03/23/95	
	DATE EXTRACTED -->	03/29/95		04/03/95		03/31/95		03/30/95		03/30/95		03/30/95	
	DATE ANALYZED --->	04/13/95		04/13/95		04/13/95		04/12/95		04/12/95		04/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	1.	J	10.	UR	10.	UR	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	UR	25.	UR	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	UJ	25.	UJ	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UJ	25.	UJ	25.	U	25.	UR	25.	UR	25.	U
100-02-7	4-Nitrophenol	25.	UJ	25.	UJ	25.	U	25.	UR	25.	UR	25.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	UJ	25.	UR	25.	UR	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	UJ	25.	UJ	25.	U	25.	UR	25.	UR	25.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 SVOA													
	SAMPLE ID ------->	008-G-MW00-3F		008-G-MW00-4F		060-G-MW01-LS		060-G-MW02-LF		060-H-MW02-LF		060-G-MW02-LS	
	ORIGINAL ID ----->	008GMW003F		008GMW004F		060GMW01LS		060GMW02LF		060HMW02LF		060GMW02LS	
	LAB SAMPLE ID --->	120536		120537		120619		120539		120540		120541	
	SAMPLE DATE ----->	03/22/95		03/23/95		03/24/95		03/23/95		03/23/95		03/23/95	
	DATE EXTRACTED -->	03/29/95		04/03/95		03/31/95		03/30/95		03/30/95		03/30/95	
	DATE ANALYZED --->	04/13/95		04/13/95		04/13/95		04/12/95		04/12/95		04/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	UJ	17.	J	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ	10.	UJ	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	UR	10.	UR	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 SVOA													
	SAMPLE ID ------->	060-G-MW03-LF		060-G-MW03-LS		060-G-MW04-LS		060-G-MW05-LS		060-G-MW06-LS			
	ORIGINAL ID ----->	060GMW03LF		060GMW03LS		060GMW04LS		060GMW05LS		060GMW06LS			
	LAB SAMPLE ID --->	120542		120620		120621		120622		120623			
	SAMPLE DATE ----->	03/23/95		03/24/95		03/24/95		03/24/95		03/24/95			
	DATE EXTRACTED -->	03/30/95		03/31/95		03/31/95		03/31/95		03/31/95			
	DATE ANALYZED --->	04/13/95		04/13/95		04/13/95		04/13/95		04/13/95			
	MATRIX ---------->	Water		Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U		
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U		
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U		
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U		
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U		
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U		
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U		
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U		
106-47-8	4-Chloroaniline	10.	UJ	10.	U	10.	U	10.	U	10.	U		
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U		
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U		
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U		
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U		
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U		
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	U	25.	U		
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U		
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U		
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U		
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U		
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U		
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U		
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U		
51-28-5	2,4-Dinitrophenol	25.	U	25.	U	25.	U	25.	U	25.	U		
100-02-7	4-Nitrophenol	25.	U	25.	U	25.	U	25.	U	25.	U		
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U		
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U		
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U		
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U		
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U		
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U		
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	UJ	25.	UJ	25.	UJ	25.	UJ		
86-30-6	N-Nitrosodiphenylamine	10.	UJ	10.	U	10.	U	10.	U	10.	U		
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U		
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U		
87-86-5	Pentachlorophenol	25.	U	25.	U	25.	U	25.	U	25.	U		
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 SVOA												
	SAMPLE ID ------->	060-G-MW03-LF		060-G-MW03-LS		060-G-MW04-LS		060-G-MW05-LS		060-G-MW06-LS		
	ORIGINAL ID ----->	060GMW03LF		060GMW03LS		060GMW04LS		060GMW05LS		060GMW06LS		
	LAB SAMPLE ID --->	120542		120620		120621		120622		120623		
	SAMPLE DATE ----->	03/23/95		03/24/95		03/24/95		03/24/95		03/24/95		
	DATE EXTRACTED -->	03/30/95		03/31/95		03/31/95		03/31/95		03/31/95		
	DATE ANALYZED --->	04/13/95		04/13/95		04/13/95		04/13/95		04/13/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter											
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 Sulfate-IC	SAMPLE ID ------->	005-G-MW03-LS					
	ORIGINAL ID ----->	005GMW03LS					
	LAB SAMPLE ID --->	120608					
	SAMPLE DATE ----->	03/24/95					
	DATE ANALYZED --->	04/21/95					
	MATRIX ---------->	Water					
	UNITS ---------->	mg/L A					
CAS #	Parameter						
14808-79-8	Sulfate	24.					

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 TPH						
SAMPLE ID ------->	003-G-MW02-LS	005-G-MW01-UF	005-G-MW03-LS	005-G-MW05-LF	005-G-MW06-LS	008-G-GM01-1F
ORIGINAL ID ----->	003GMW02LS	005GMW01UF	005GMW03LS	005GMW05LF	005GMW06LS	008GGM011F
LAB SAMPLE ID --->	120517	120669	120608	120518	120609	120520
SAMPLE DATE ----->	03/23/95	03/27/95	03/24/95	03/23/95	03/24/95	03/23/95
DATE EXTRACTED -->	04/20/95	04/17/95	04/17/95	04/20/95	04/17/95	04/20/95
DATE ANALYZED --->	04/20/95	04/18/95	04/18/95	04/20/95	04/18/95	04/20/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 TPH							
	SAMPLE ID ------->	008-G-MW00-3F	008-G-MW00-4F+	060-G-MW01-LS	060-G-MW02-LF	060-H-MW02-LF	060-G-MW02-LS
	ORIGINAL ID ----->	008GMW003F	008GMW004F	060GMW01LS	060GMW02LF	060HMW02LF	060GMW02LS
	LAB SAMPLE ID --->	120521	120522	120611	120524	120525	120526
	SAMPLE DATE ----->	03/23/95	03/23/95	03/24/95	03/23/95	03/23/95	03/23/95
	DATE EXTRACTED -->	04/20/95	04/20/95	04/17/95	04/20/95	04/20/95	04/20/95
	DATE ANALYZED --->	04/20/95	04/20/95	04/18/95	04/20/95	04/20/95	04/20/95
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS #	Parameter						
9999900-02-4	Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 TPH						
SAMPLE ID ------->	060-G-MW03-LF	060-G-MW03-LS	060-G-MW04-LS	060-G-MW05-LS	060-G-MW06-LS	
ORIGINAL ID ----->	060GMW03LF	060GMW03LS	060GMW04LS	060GMW05LS	060GMW06LS	
LAB SAMPLE ID --->	120527	120612	120613	120614	120615	
SAMPLE DATE ----->	03/23/95	03/24/95	03/24/95	03/24/95	03/24/95	
DATE EXTRACTED -->	04/20/95	04/17/95	04/17/95	04/17/95	04/17/95	
DATE ANALYZED --->	04/20/95	04/18/95	04/18/95	04/18/95	04/18/95	
MATRIX ---------->	Water	Water	Water	Water	Water	
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 VOA													
	SAMPLE ID ------->	003-G-MW02-LS		005-G-MW01-UF		005-G-MW03-LS		005-G-MW05-LF		005-G-MW06-LS		008-G-GM01-1F	
	ORIGINAL ID ----->	003GMW02LS		005GMW01UF		005GMW03LS		005GMW05LF		005GMW06LS		008GGM011F	
	LAB SAMPLE ID --->	120532		120671		120616		120533		120617		120535	
	SAMPLE DATE ----->	03/23/95		03/27/95		03/24/95		03/23/95		03/24/95		03/23/95	
	DATE ANALYZED --->	04/03/95		04/04/95		04/03/95		04/03/95		04/03/95		04/03/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	UJ	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	27.		10.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1353 VOA																								
	SAMPLE ID ------->	008-G-MW00-3F			008-G-MW00-4F			060-G-MW01-LS			060-G-MW02-LF			060-H-MW02-LF			060-G-MW02-LS		
	ORIGINAL ID ----->	008GMW003F			008GMW004F			060GMW01LS			060GMW02LF			060HMW02LF			060GMW02LS		
	LAB SAMPLE ID --->	120536			120537			120619			120539			120540			120541		
	SAMPLE DATE ----->	03/22/95			03/23/95			03/24/95			03/23/95			03/23/95			03/23/95		
	DATE ANALYZED --->	04/03/95			04/04/95			04/03/95			04/03/95			04/03/95			04/03/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A
CAS #	Parameter																		
74-87-3	Chloromethane	10.	U		10.	UJ		10.	U		10.	U		10.	U		10.	U	
74-83-9	Bromomethane	10.	U		10.	UJ		10.	U		10.	U		10.	U		10.	U	
75-01-4	Vinyl chloride	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
75-00-3	Chloroethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
75-09-2	Methylene chloride	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
67-64-1	Acetone	10.	U		12.	U		13.	U		10.	U		10.	U		20.		
75-15-0	Carbon disulfide	10.	U		10.	U		22.			10.	U		10.	U		10.	U	
75-35-4	1,1-Dichloroethene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
75-34-3	1,1-Dichloroethane	10.	U		10.	U		1.	J		10.	U		10.	U		10.	U	
540-59-0	1,2-Dichloroethene (total)	10.	U		10.	U		5.	J		10.	U		10.	U		10.	U	
67-66-3	Chloroform	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
107-06-2	1,2-Dichloroethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
78-93-3	2-Butanone (MEK)	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
71-55-6	1,1,1-Trichloroethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
56-23-5	Carbon tetrachloride	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
75-27-4	Bromodichloromethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
78-87-5	1,2-Dichloropropane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
10061-01-5	cis-1,3-Dichloropropene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
79-01-6	Trichloroethene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
124-48-1	Dibromochloromethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
79-00-5	1,1,2-Trichloroethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
71-43-2	Benzene	10.	U		10.	U		26.			10.	U		10.	U		10.	U	
10061-02-6	trans-1,3-Dichloropropene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
75-25-2	Bromoform	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
591-78-6	2-Hexanone	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
127-18-4	Tetrachloroethene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
79-34-5	1,1,2,2-Tetrachloroethane	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
108-88-3	Toluene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
108-90-7	Chlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
100-41-4	Ethylbenzene	10.	U		10.	U		9.	J		10.	U		10.	U		10.	U	
100-42-5	Styrene	10.	U		10.	U		10.	U		10.	U		10.	U		10.	U	
1330-20-7	Xylene (Total)	10.	U		10.	U		3.	J		10.	U		10.	U		10.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1353 VOA													
	SAMPLE ID ------->	060-G-MW03-LF		060-G-MW03-LS		060-G-MW04-LS		060-G-MW05-LS		060-G-MW06-LS			
	ORIGINAL ID ----->	060GMW03LF		060GMW03LS		060GMW04LS		060GMW05LS		060GMW06LS			
	LAB SAMPLE ID --->	120542		120620		120621		120622		120623			
	SAMPLE DATE ----->	03/23/95		03/24/95		03/24/95		03/24/95		03/24/95			
	DATE ANALYZED --->	04/03/95		04/03/95		04/03/95		04/03/95		04/03/95			
	MATRIX ---------->	Water		Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U		
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U		
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U		
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U		
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U		
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	1.	J	10.	U		
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U		
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U		
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U		
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U		
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U		
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U		
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U		
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U		
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U		
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U		
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U		
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U		
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U		
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U		
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U		
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U		
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U		
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U		
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U		
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U		
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U		

*** Validation Complete ***

VALIDATA

Chemical Services, Inc.

P. O. Box 930422 Norcross, Ga 30093

DATA VALIDATION SUMMARY REPORT

COMPANY:	Ensafe/Allen & Hoshall
SITE NAME:	NAS Memphis
PROJECT NUMBER:	8500.024
CONTRACTED LAB:	National Environmental Testing, Inc.
QA/QC LEVEL:	Level III
EPA SOW/METHOD:	EPA 1990 SOW
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, 1994; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, 1994
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organics (VOA), Semivolatile Organics (SVOA), Pesticides/PCB's (P/PCB), Total Metals and Cyanide (Me/CN), Total Petroleum Hydrocarbons (TPH), Herbicides (HERB), Organophosphorus Pesticides (OPPE), Alkalinity (ALK), Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen (TKN), Total Phosphorus (P), Nitrate (N), Hardness (HD), Total Suspended Solids (TSS), Turbidity (TB)
SDG NUMBER:	1354

SAMPLES:

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOA	P/PCB	HERB	TPH
005GMW02UF	120765/59	Water	X	X	X	X	X
005GMW03UF	120766/62	Water	X	X	X	X	X
005GMW04LS	120949/42	Water	X	X	X	X	X
005GMW04UF	120950/43	Water	X	X	X	X	X
005GMW07LS	120951/40	Water	X	X	X	X	X
005GM4AUF	120952/44	Water	X	X	X	X	X
005GM4BUF	120953/45	Water	X	X	X	X	X
007GMW01LS	121028	Water		X			
007GMW01LSRE	121028RE	Water		X			
060GMW01LF	120767/60	Water	X	X	X	X	X
060GMW01LFRE	120767RE	Water		X			

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOC	P/PCB	HERB	TPH
060GMW04LF	120768/63	Water	X	X	X	X	X
060GMW04LFMS	120768/63MS	Water	X	X	X	X	
060GMW04LFMSD	120768/63MSD	Water	X	X	X	X	
060HMW04LF	120769/64	Water	X	X	X	X	X
060T032895	120770	Water	X				
005E032995	120941	Water	X	X	X	X	
005T032995	120954	Water	X				

Client Sample #:	Lab Sample #:	Matrix	TB	TSS	N	P	TKN
005GMW02UF	120759	Water	X	X	X	X	X
005GMW07LS	120940	Water	X	X	X	X	X
060GMW01LF	120760	Water	X	X	X	X	X
060GMW01LS	120761	Water			X	X	

Client Sample #:	Lab Sample #:	Matrix	ALK	BOD	COD
005GMW02UF	120759	Water	X	X	X
005GMW07LS	120940	Water	X	X	X
060GMW01LF	120760	Water	X	X	X
060GMW01LS	120761	Water	X	X	X

Client Sample #:	Lab Sample #:	Matrix	Me/CN	HD	OPPE
005GMW02UF	120759*	Water	X	X	X
005GMW02UF	120765	Water	X		
005GMW03UF	120766/62	Water	X		X
005GMW04LS	120949/42	Water	X		X
005GMW04UF	120950/43	Water	X		X
005GMW07LS	120940*	Water	X	X	X
005GMW07LS	120951	Water	X		
005GM4AUF	120952/44	Water	X		X
005GM4BUF	120953/45	Water	X		X
007GMW01LS	120946	Water			X
060GMW01LF	120760*	Water	X	X	
060GMW01LF	120767/60	Water	X		X
060GMW04LF	120768/63	Water	X		X
060GMW04LFMS	120768MS	Water	X		X
060GMW04LFMSD	120768MSD	Water			X
060GMW04LFMD	120768MD	Water	X		
060HMW04LF	120769/64	Water	X		X

H = FIELD DUPLICATE, MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE,
MD = MATRIX DUPLICATE, RE = REANALYSIS

DATA REVIEWER(S): Amy L. Hogan, Marvin L. Smith

RELEASE SIGNATURE: Kevin C. Hannon

Data Qualifier Definitions:

J	-	The associated numerical value is an estimated quantity.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1354 Organics and Inorganics

SAMPLES: 005GMW02UF, 005GMW03UF, 005GMW04UF, 005GMW04LS, 005GMW07LS, 005GM4AUF, 005GM4BUF, 060GMW01LF, 060MW01LS, 060GMW01LFRE, 060GMW04LF, 060GMW04LFMS, 060GMW04LFMSD, 060GMW04LFMD, 060HMW04LF, 007GMW01LS, 007GMW01LSRE, 060T032895, 005E032995, 005T032995

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/04/95 at 10:25 on instrument HP5970K:

chloromethane	25.6%
bromomethane	26.2%

The results for these compounds in associated sample 060HMW04LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Difference (%D) of acetone (29.4%) exceeded the 25% QC limit for the continuing calibration run on 4/06/95 at 10:11 on instrument HP5970K. The results for this compound in associated samples 005GMW04UF, 005GMW07LS, 005GM4AUF and 005GM4BUF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Difference (%D) of acetone (27.6%) exceeded the 25% QC limit for the continuing calibration run on 4/07/98 at 10:30 on instrument HP5970K. The positive and non-detect results for this compound in associated samples 005GMW02UF, 060GMW01LF and 005GMW04LS were flagged as estimated (J) and (UJ).

IV.) Blanks:

Method Blanks:

Bromomethane was detected at 1.0 ug/L in water method blank VBLK040495K. The positive result for this compound in associated sample 060HMW04LF, which was less than 5X the blank amount, was flagged as undetected (U) with the detection limit being raised to the level of contamination in the sample.

Methylene chloride was detected at 1 ug/L in water method blank VBLK040695K. The positive result for this compound in associated sample 060GMW01LF, which was less than 10X the blank amount, was flagged as undetected (U) with the detection limit being raised to the level of contamination in the sample. There were no positive results for this compound in the other associated samples.

Methylene chloride was detected at 1 ug/L in water method blank VBLK040795K. There were no positive detections of this compound in the associated samples. No action was required.

Trip Blanks and Equipment Blanks:

Carbon disulfide and chlorobenzene were detected at 11 ug/L and 1 ug/L, respectively, in equipment blank 005E032995. Positive detections of these compounds in associated samples 005GMW07LS and 005GMW04LS less than 5X the blank contamination were flagged as undetected (U) with the laboratory results being replaced with the detection limit.

Acetone, carbon disulfide and toluene were detected at 9 ug/L, 2 ug/L and 1 ug/L, respectively, in field blank 005F032795 (analyzed with SDG 1353). Positive detections of acetone in associated samples 060GMW01LF and 060GMW04LF below 10X the blank contamination were flagged as undetected (U) with the detection limit being raised to the level of contamination in each sample. There were no associated positive detections of the other compounds, so no further action was required.

TIC's:

There were no TIC's reported in the blanks for this SDG.

V.) Surrogate Recoveries:

The Percent Recovery of bromofluorobenzene in sample 060GMW04LFMS (84%) was below the 86-115% QC limits. Since the sample was a matrix spike, no action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was required.

VII.) Field Duplicates:

There were no calcuable Relative Percent Differences (RPD's) for field duplicate samples 060GMW04LF and 060HMW04LF. No action was necessary.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

There were no positive detections in these two samples, and no data qualification was required. All remaining laboratory data were acceptable with qualification.

SEMIVOLATILE ORGANICS

I.) Holding Times:

The number of days between sample date and extraction date exceeded the 14 day QC limit for the following compounds:

007GMW01LSRE	33
060GMW01LFRE	23

The results for sample 060GMW01LFRE, which consisted entirely of non-detects, were flagged as estimated (UJ). The results for sample 007GMW01LSRE were rejected (R) since the number of days was more than 2X the QC limit.

II.) GC/MS Tuning:

All GC/MS Tuning criteria were met, so no action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) of hexachlorocyclopentadiene (43.7%) exceeded the 30% QC limit for the initial calibration run on 2/21/95 on instrument HP5970F. There were no positive results for this compound in the associated samples. No action was required.

The Percent Relative Standard Deviations (%RSD's) of hexachlorocyclopentadiene (35.2%) and 2,4-dinitrophenol (32.1%) exceeded the 30% QC limit for the initial calibration run on 4/28/95 on instrument HP5970F. There were no positive results for these compounds in the associated samples. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/13/95 at 16:41 on instrument HP5970F:

2,2'-oxybis(1-chloropropane)	27.9%
2-nitroaniline	26.0%
2,4-dinitrophenol	37.2%
4-nitrophenol	32.4%
pentachlorophenol	31.3%

All results for these compounds in associated samples 005GMW02UF, 005GMW03UF, 060GMW01LF, 060GMW04LF and 060HMW04LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 5/04/95 at 09:57 on instrument HP5970F:

2,2'-oxybis(1-chloropropane)	26.8%
n-nitroso-di-n-propylamine	27.3%

The results for these compounds in associated sample 007GMW01LSRE were previously rejected (R).

The Percent Difference (%D) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/27/95 at 13:57 on instrument HP5970J:

2,2'-oxybis(1-chloropropane)	50.4%
2,4-dinitrophenol	26.1%
4-nitrophenol	36.6%
4,6-dinitro-2-methylphenol	43.2%

The results for these compounds in associated samples 005GMW04LS, 005GMW04UF and 005GMW07LS, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the

continuing calibration run on 4/28/95 at 10:01 on instrument HP5970J:

bis (2-ethylhexyl)phthalate	27.6%
2,2'-oxybis(1-chloropropane)	82.3%
2,6-dinitrotoluene	28.8%
2,4-dinitrophenol	44.2%
4-nitrophenol	26.9%
2,4-dinitrotoluene	34.1%
4,6-dinitro-2-methylphenol	52.9%

The results for these compounds in associated samples 007GMW01LS, 005GMW4AUF and 005GMW4BUF, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

Bis(2-ethylhexyl)phthalate was detected at 2 ug/L in water method blank SBLK040595F. The positive result for bis(2-ethylhexyl)phthalate in associated sample 007GMW01LS, which was less than 10X the blank amount, was flagged as undetected (U) with the detection limit being raised to the level of contamination in the sample. There were no positive detections of this compound in the other associated samples. No further action was necessary.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

The Percent Recoveries (%R's) of 2-fluorophenol (14%) and 2-chlorophenol (30%) exceeded the 21-110% and 33-110% QC limits, respectively, in sample 005GMW02UF. All results for the acid fraction of this sample, which consisted entirely of non-detects, were flagged as estimated (UJ). This sample was not reanalyzed.

The Percent Recoveries (%R's) of the following compounds exceeded the QC limits for sample 007GMW01LS:

Compound	%R	QC limits
2-fluorophenol	5	21-110
2,4,6-tribromophenol	6	10-123
2-chlorophenol	12	33-110

Since the %R's of two surrogates were less than 10%, the results for the acid fraction of this sample, which consisted entirely of non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds exceeded the QC limits for sample 007GMW01LSRE:

Compound	%R	QC limits
2-fluorophenol	10	21-110
2,4,6-tribromophenol	4	10-123
2-chlorophenol	20	33-110

The results for this sample were previously rejected (R). No further action was required.

The Percent Recoveries (%R's) of the following compounds exceeded their QC limits for sample 060GMW01LF:

Compound	%R	QC limits
2-fluorophenol	3	21-110
2,4,6-tribromophenol	4	10-123
2-chlorophenol	8	33-110

Since the %R's of three surrogates were less than 10%, the results for this sample, which consisted entirely on non-detects, were rejected (R).

The Percent Recoveries (%R's) of the following compounds exceeded their QC limits for sample 060GMW01LFRE:

Compound	%R	QC limits
2-fluorophenol	3	21-110
2,4,6-tribromophenol	2	10-123
2-chlorophenol	11	33-110

Since the %R's of two surrogates were less than 10%, the results for the acid fraction of this sample, which consisted entirely of non-detects, were rejected (R).

VI.) Matrix Spike/Matrix Spike Duplicate:

The Relative Percent Differences (RPD's) of the following compounds exceeded the 28% QC limit for samples 060GMW04LFMS and 060GMW04LFMSD:

1,4-dichlorobenzene	40%
1,2,4-trichlorobenzene	39%

The non-detect results for these two compounds in associated sample 060GMW04LF were flagged as estimated (UJ).

VII.) Field Duplicates:

There were no calcuable Relative Percent Differences (RPD's) for field duplicate samples 060GMW04LF and 060HMW04LF associated with this SDG. No action was required.

VIII.) Internal Standards Performance:

All Internal Standard Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met, so no action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

All results for 007GMW01LSRE were rejected (R) due to holding time exceedance and low (<10%) Surrogate Recoveries. All results for the acid fractions of samples 07GMW01LS, 060GMW01LF and 060GMW01LFRE were rejected due to low (<10%) Surrogate Recoveries. All other data were acceptable with qualification.

PESTICIDES/PCB's

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was required.

III.) Calibration:

All Calibration criteria were met. No action was required.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

The Percent Recoveries (%R's) of the TCX surrogate were below the 30-150% QC limits for the following sample:

Sample	TCX Quant.%R	TCX Conf. %R
060HMW04LF	29.0%	25.0%

All results in this sample, which consisted entirely of non-detects, were flagged as estimated (UJ).

VI.) Matrix Spike / Matrix Spike Duplicate:

There were no MS / MSD analyses requested for this fraction in this SDG. No action was required.

VII.) TCL Compound Identification:

Pesticide/PCB Identification Summary (PIS):

All PIS criteria were met. No action was required.

VIII.) Field Duplicates:

There were no calcuable Relative Percent Differences (RPD's) for field duplicate samples 060GMW04LF and 060HMW04LF associated with this SDG. No action was required.

IX.) Pesticide Cleanup Check:

Florisil Cartridge Check:

All criteria were met, so no action was taken.

Gel Permeation Chromatography (GPC):

All GPC criteria were met, so no action was necessary.

X.) Overall Assessment of Data/General:

All results for 060HMW04LF were flagged as estimated (UJ) due to low Surrogate Recoveries. All other data were acceptable without qualification.

ORGANOPHOSPHORUS PESTICIDES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) of the following compounds exceeded the 20% QC limit for the initial calibration run on 4/05/95:

alpha mevinphos	28.3%
fensulfothion	31.9%
guthion	26.5%

The associated sample results, which consisted entirely of non-detects, were flagged as estimated (UJ).

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/12/95 at 16:57:

Compound	%D
ethoprop	32.9
phorate	25.4
merphos	28.2
tokuthion	32.3
sulprofos	31.6
coumophos	129

The results for these compounds in associated samples 005GMW07LS, 005GMW04LS, 005GMW04UF, 005GMW4AUF, 005GMW4BUF and 007GMW01LS, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/13/95 at 10:18:

Compound	%D
ethoprop	39.9
phorate	28.8
diazinon	26.2
disulfoton	35.2
chlorpyrifos	26.9
trichloronate	26.1
merphos	43.0
tokuthion	35.8
sulprofos	31.0
guthion	65.3
coumophos	131

The results for these compounds in associated samples 005GMW07LS, 005GMW04LS, 005GMW04UF, 005GMW4AUF, 005GMW4BUF, 007GMW01LS, 005GMW02UF, 060GMW01LF, 005GMW03UF, 060GMW04LF and 060HMW04LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/13/95 at 21:10:

Compound	%D
o,demeton	27.6
ethoprop	48.9
phorate	32.8
s,demeton	31.2
diazinon	29.5
disulfoton	39.6
chlorpyrifos	46.7
trichloronate	29.8
merphos	58.8
tokuthion	40.8
fensolfothion	33.5
sulprofos	37.7
guthion	62.6
coumophos	129

The results for these compounds in associated samples 005GMW02UF, 060GMW01LF, 005GMW03UF, 060GMW04LF and 060HMW04LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria for the method was met. No action was required.

VI.) Laboratory Control Sample

The Percent Recoveries (%R's) of the following compounds exceeded the 40-150% QC limit for NLCS10404A:

fensulfothion	166%
coumophos	229%

Since there were no positive results for these compounds in the associated samples, no action was required.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

The Percent Recoveries (%R's) and Relative Percent Differences (RPD's) of the following compounds were outside the 50-140% and 15% QC limits, respectively, for samples 060GMW04LFMS and 060GMW04LFMSD:

Compound	MS %R	MSD %R	RPD
dichlorvos		49	20
alpha mevinphos			19
o,demeton			27
ethoprop			24
naled		35	46
phorate			32
s,demeton			33
diazinon			29
disulfoton			30
methyl parathion			25
ronnel			25
fenthion			53
merphos	33	42	26
fensulfothion			67
guthion		47	59
coumophos	205		52
tokuthion			44
stirophos		30	67
sulprofus			44

The results for these compounds in associated sample 060GMW04LF, not previously flagged based on the associated continuing calibration, were flagged as estimated (UJ).

VIII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

IX.) Field Duplicates:

There were no calcuable Relative percent Differences (RPD's) for field duplicate samples 060GMW04LF and 060HMW04LF. No action was required.

X.) Overall Assessment of Data/General:

All data were acceptable with qualification.

HERBICIDES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviations (%RSD's) of the following compounds exceeded the 20% QC limit for the initial calibration run on 3/30/95:

MCPP	34.9%
dinoseb	45.8%

Since all results for these compounds in the samples for this SDG consisted entirely of non-detects, no action was necessary.

Continuing Calibration:

The Percent Differences (%D's) of MCPP (28.4%) and dinoseb (45.8%) exceeded the 25% QC limit for the continuing calibration run on 4/22/95 at 09:25. The results for these compounds in the associated sample (all samples in this SDG), which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Difference (%D) of dinoseb (149%) exceeded the 25% QC limit for the continuing calibration run on 4/22/95 at 20:22. The results for this compound in the associated sample (all samples in this SDG), which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the

continuing calibration run on 4/23/95 at 07:03:

MCPP	45.3%
2,4,5-T	28.4%
2,4-DB	25.8%
dinoseb	220%

The results for 2,4,5-T and 2,4-DB in associated samples 005GMW07LS, 005GMW04LS, 005GMW04UF, 005GMW4AUF and 005GMW4BUF, which consisted entirely of non-detects, were flagged as estimated (UJ). The results for the other compounds in these samples were previously flagged as estimated.

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

Field Blanks:

There were no positive detections in the field blanks associated with this SDG. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

The Relative Percent Differences (RPD's) of the following compounds exceeded the 20% QC limit for samples 060GMW04LFMS and 060GMW04LFMSD:

dicamba	28%
silvex	22%
dichloroprop	22%
dinoseb	37%

The results for these compounds in associated sample 060GMW04LF were flagged as estimated (UJ).

VII.) LCS Recoveries:

The Percent Recoveries (%R's) of MCPP (176%), MCPA (150%) and dinoseb (158%) in sample ESTSPK0421 exceeded the 10-150% QC limit. Since there were no positive results for these compounds in the associated samples, no action was required.

VIII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

TOTAL METALS and CYANIDE

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was required.

III.) Blanks:

The following blank results represent the highest detections associated with the samples and were used for data qualification:

Blank Type/ID#	Analyte	Max. Conc.	Action Level ug/L
PB	calcium	105 ug/L	525
PB	iron	15.9 ug/L	79.5
EB	silver	3.9 ug/L	19.5
CCB1	tin	45.9 ug/L	230

PB = Preparation Blank, CCB = Continuing Calibration Blank
EB = Equipment Blank (005E032995)

All results greater than the IDL but less than 5X the blank amount (Action Level, ug/L for water samples) for which the contaminated blank was an associated calibration, preparation or equipment blank were flagged as undetected (U).

The following analytes had negative results with absolute values greater than the IDL:

Blank Type/ID#	Analyte	Neg. Conc.	5X Conc. (ug/L)
CCB1	arsenic	-2.9 ug/L	14.5
CCB1	zinc	-7.3 ug/L	36.5

CCB = Continuing Calibration Blank

All associated positive sample results less than 5X the absolute value of the negative blank result and all non-detects were flagged as estimated (J) and (UJ).

IV.) ICP Interference Check Sample Results:

All Interference Check Sample criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

All Serial Dilution criteria were met, so no action was necessary.

IV.) ICP Interference Check Sample Results:

All Interference Check Sample criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

All Serial Dilution criteria were met, so no action was necessary.

VI.) Laboratory Control Samples (LCS):

All Laboratory Control Sample criteria were met. No action was required.

VII.) Duplicate Sample Analysis:

All Duplicate Sample criteria were met. No action was necessary.

VIII.) Matrix Spike Recoveries:

The Percent Recovery (%R) of silver (72.1%) in sample 060GMW04LFS was below the 75-125% QC limits. All results for this analyte in the associated samples, which consisted entirely of non-detects, were flagged as estimated (UJ).

IX.) Field Duplicates:

The Relative Percent Difference (RPD) of barium (9.1%) was within the 30% QC limit for field duplicate samples 060GMW04LFand 060HMW04LF. No action was necessary.

X.) Furnace Atomic Absorption QC:

All GFAA criteria were met. No action was required.

XI.) Sample Result, Calculation/Transcription Verification:

All criteria were met, so no action was taken.

XII.) Quarterly Verification of Instrumental Parameters:

All criteria met, so no action was taken.

XIII.) Overall Assessment of Data/General:

All laboratory data were acceptable with qualification.

TOTAL PETROLEUM HYDROCARBONS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

ALKALINITY

I.) Holding Times:

All samples were extracted and analyzed within the required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

BIOCHEMICAL OXYGEN DEMAND

I.) Holding Times:

All samples were extracted and analyzed within the required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

CHEMICAL OXYGEN DEMAND

I.) Holding Times:

All samples were extracted and analyzed within the required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TOTAL KJELDAHL NITROGEN

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TOTAL PHOSPHORUS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TOTAL SUSPENDED SOLIDS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

HARDNESS

I.) Holding Times:

All samples were extracted and analyzed within the required holding times. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was necessary.

III.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VI.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

VIII.) Overall Assessment of Data/General:

All data were acceptable without qualification.

NITRATE

I.) Holding Times:

All samples were extracted and analyzed within the required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

TURBIDITY

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates for this fraction. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 ALKALINITY						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF	060-G-MW01-LS		
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF	060GMW01LS		
LAB SAMPLE ID --->	120759	120940	120760	120761		
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95	03/28/95		
DATE ANALYZED --->	04/04/95	04/08/95	04/08/95	04/08/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	ppmCa A	ppmCa A	ppmCa A	ppmCa A		
CAS # Parameter						
9999900-03-9 Alkalinity as CaCO3	9.9	480.	120.	200.		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 BOD - 5 Da						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF	060-G-MW01-LS		
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF	060GMW01LS		
LAB SAMPLE ID --->	120759	120940	120760	120761		
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95	03/28/95		
DATE ANALYZED --->	03/29/95	04/03/95	03/29/95	03/29/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-8 Biochemical Oxygen Demand (5-day)	1.5	15. U	63.	29.		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 COD						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF	060-G-MW01-LS		
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF	060GMW01LS		
LAB SAMPLE ID --->	120759	120940	120760	120761		
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95	03/28/95		
DATE ANALYZED --->	04/12/95	04/19/95	04/12/95	04/12/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-04-0 Chemical Oxygen Demand	15. U	21.	94.	79.		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 HERB						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW03-UF	005-G-MW04-UF	005-G-MW05-LS	005-G-MW07-LS	005-G-MW4A-UF
ORIGINAL ID ----->	005GMW02UF	005GMW03UF	005GMW04UF	005GMW05LS	005GMW07LS	005GMW4AUF
LAB SAMPLE ID --->	120759	120762	120943	120942	120940	120944
SAMPLE DATE ----->	03/28/95	03/28/95	03/29/95	03/29/95	03/29/95	03/29/95
DATE EXTRACTED -->	04/21/95	04/21/95	04/21/95	04/21/95	04/21/95	04/21/95
DATE ANALYZED --->	04/22/95	04/22/95	04/22/95	04/22/95	04/22/95	04/22/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A	ug/L A
CAS # Parameter						
94-82-6 2,4-DB	0.47 U	0.47 U	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ
88-85-7 Dinoseb	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ
93-76-5 2,4,5-T	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
93-72-1 2,4,5-TP (Silvex)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
75-99-0 Dalapon	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1918-00-9 Dicamba	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
120-36-5 Dichlorprop	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
94-74-6 MCPA	47. U	47. U	47. U	47. U	47. U	47. U
93-65-2 MCPP	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ	47. UJ
94-75-7 2,4-D	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 HERB											
	SAMPLE ID ------->	005-G-MW4B-UF		060-G-MW01-LF		060-G-MW04-LF		060-H-MW04-LF			
	ORIGINAL ID ----->	005GMW4BUF		060GMW01LF		060GMW04LF		060HMW04LF			
	LAB SAMPLE ID --->	120945		120760		120763		120764			
	SAMPLE DATE ----->	03/29/95		03/28/95		03/28/95		03/28/95			
	DATE EXTRACTED -->	04/21/95		04/21/95		04/21/95		04/21/95			
	DATE ANALYZED --->	04/22/95		04/22/95		04/22/95		04/22/95			
	MATRIX ---------->	Water		Water		Water		Water			
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A		
CAS #	Parameter										
94-82-6	2,4-DB	0.47	UJ	0.47	U	0.47	U	0.47	U		
88-85-7	Dinoseb	0.24	UJ	0.24	UJ	0.24	UJ	0.24	UJ		
93-76-5	2,4,5-T	0.05	UJ	0.05	U	0.05	U	0.05	U		
93-72-1	2,4,5-TP (Silvex)	0.05	U	0.05	U	0.05	UJ	0.05	U		
75-99-0	Dalapon	1.1	U	1.1	U	1.1	U	1.1	U		
1918-00-9	Dicamba	0.05	U	0.05	U	0.05	UJ	0.05	U		
120-36-5	Dichlorprop	0.47	U	0.47	U	0.47	UJ	0.47	U		
94-74-6	MCPA	47.	U	47.	U	47.	U	47.	U		
93-65-2	MCPP	47.	UJ	47.	UJ	47.	UJ	47.	UJ		
94-75-7	2,4-D	0.47	U	0.47	U	0.47	U	0.47	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 Hardness						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF			
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF			
LAB SAMPLE ID --->	120759	120940	120760			
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95			
DATE EXTRACTED -->	04/20/95	04/20/95	04/20/95			
DATE ANALYZED --->	04/22/95	04/22/95	04/22/95			
MATRIX ---------->	Water	Water	Water			
UNITS ---------->	mg/L A	mg/L A	mg/L A			
CAS # Parameter						
9999900-03-3 Hardness as CaCO3	216.	510.	151.			

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 KJELDAHL						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF			
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF			
LAB SAMPLE ID --->	120759	120940	120760			
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95			
DATE EXTRACTED -->	04/10/95	04/10/95	04/10/95			
DATE ANALYZED --->	04/17/95	04/17/95	04/17/95			
MATRIX ---------->	Water	Water	Water			
UNITS ---------->	mg/L A	mg/L A	mg/L A			
CAS # Parameter						
999-99-9 Kjeldahl Nitrogen-N	1.1	3.6	0.5			

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
		SAMPLE ID ------->	005-G-MW02-UF		005-G-MW02-UF		005-G-MW03-UF		005-G-MW04-UF		005-G-MW05-LS		005-G-MW07-LS
		ORIGINAL ID ----->	005GMW02UF		005GMW02UF		005GMW03UF		005GMW04UF		005GMW05LS		005GMW07LS
		LAB SAMPLE ID --->	120759		5-120765S		5-120766S		2-120950S		2-120949S		120940
		ID FROM REPORT -->	005GMW02UF		005GMW02UF		005GMW03UF		005GMW04UF		005GMW05LS		005GMW07LS
		SAMPLE DATE ----->	03/28/95		03/28/95		03/28/95		03/29/95		03/29/95		03/29/95
		DATE EXTRACTED -->	04/20/95										04/20/95
		DATE ANALYZED --->	04/21/95										04/21/95
		MATRIX ---------->	Water		Water		Water		Water		Water		Water
		UNITS ---------->	ug/L		UG/L		UG/L		UG/L		UG/L		ug/L
CAS #	Parameter		1354	VAL	1354	VAL	1354	VAL	1354	VAL	1354	VAL	1354	VAL
SB	Antimony		NR		40.	U	40.	U	40.	U	40.	U	NR	
AS	Arsenic		NR		2.	U	2.	U	2.	U	8.5	J	NR	
BA	Barium		NR		112.	J	61.4	J	50.8	J	417.		NR	
BE	Beryllium		NR		1.	U	1.	U	1.	U	1.5	J	NR	
CD	Cadmium		NR		5.4	J	3.	U	3.	U	7.7	J	NR	
CR	Chromium		NR		5.	U	5.	U	5.	U	26.5		NR	
CO	Cobalt		NR		5.	U	5.	U	5.	U	8.3	J	NR	
CU	Copper		NR		5.	U	5.	U	5.	U	37.4		NR	
PB	Lead		NR		2.	U	2.2	U	2.	U	10.7	U	NR	
HG	Mercury		NR		0.2	U	0.2	U	0.2	U	0.2	U	NR	
NI	Nickel		NR		15.	U	15.	U	15.	U	26.6	J	NR	
SE	Selenium		NR		2.	U	2.	U	2.	U	2.	U	NR	
AG	Silver		NR		3.	UJ	3.	UJ	3.	UJ	3.	UJ	NR	
TL	Thallium		NR		2.	UJ	2.	UJ	2.	UJ	2.	UJ	NR	
V	Vanadium		NR		4.	U	4.	U	4.	U	37.2	J	NR	
ZN	Zinc		NR		10.1	U	10.6	U	7.2	U	157.		NR	
SN	Tin		NR		15.	U	15.	U	15.	U	15.	U	NR	
AL	Aluminum		NR		NR		NR		NR		NR		NR	
CA	Calcium		49800.		NR		NR		NR		NR		122000.	
FE	Iron		1500.		NR		NR		NR		NR		2620.	
MG	Magnesium		22200.		NR		NR		NR		NR		49700.	
MN	Manganese		525.		NR		NR		NR		NR		727.	
NA	Sodium		NR		NR		NR		NR		NR		NR	
K	Potassium		NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL													
		SAMPLE ID ------->	005-G-MW07-LS		005-G-MW4A-UF		005-G-MW4B-UF		060-G-MW01-LF		060-G-MW01-LF		060-G-MW04-LF	
		ORIGINAL ID ----->	005GMW07LS		005GMW4AUF		005GMW4BUF		060GMW01LF		060GMW01LF		060GMW04LF	
		LAB SAMPLE ID --->	2-120951S		2-120952S		2-120953S		120760		5-120767S		5-120768S	
		ID FROM REPORT -->	005GMW07LS		005GMW4AUF		005GMW4BUF		060GMW01LF		060GMW01LF		060GMW04LF	
		SAMPLE DATE ----->	03/29/95		03/29/95		03/29/95		03/28/95		03/28/95		03/28/95	
		DATE EXTRACTED -->							04/20/95					
		DATE ANALYZED --->							04/21/95					
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		UG/L		ug/L		UG/L		UG/L	
CAS #	Parameter		1354	VAL	1354	VAL	1354	VAL	1354	VAL	1354	VAL	1354	VAL
SB	Antimony		40.	U	40.	U	40.	U	NR		40.	U	40.	U
AS	Arsenic		2.6	J	2.	U	2.	U	NR		2.	U	2.	U
BA	Barium		256.		76.8	J	82.1	J	NR		210.		73.7	J
BE	Beryllium		1.	U	1.	U	1.	U	NR		1.	U	1.	U
CD	Cadmium		3.	U	3.	U	3.	U	NR		3.	U	3.	U
CR	Chromium		5.	U	5.	U	5.	U	NR		5.	U	5.	U
CO	Cobalt		5.	U	8.7	J	9.4	J	NR		8.4	J	5.	U
CU	Copper		5.	U	5.	U	5.	U	NR		5.	U	5.	U
PB	Lead		2.8	U	3.	U	2.	U	NR		2.	U	2.	U
HG	Mercury		0.2	U	0.2	U	0.2	U	NR		0.2	U	0.2	U
NI	Nickel		15.	U	15.	U	15.	U	NR		15.	U	15.	U
SE	Selenium		2.	U	2.	U	2.	U	NR		2.	U	2.	U
AG	Silver		3.	UJ	4.6	UJ	3.	UJ	NR		3.	UJ	3.5	UJ
TL	Thallium		2.	UJ	2.	UJ	2.	UJ	NR		2.	UJ	2.	UJ
V	Vanadium		4.5	J	4.	U	4.	U	NR		4.	U	4.	U
ZN	Zinc		53.7		13.8	U	8.4	U	NR		7.4	U	9.	U
SN	Tin		15.	U	15.	U	15.	U	NR		15.	U	15.	U
AL	Aluminum		NR		NR		NR		NR		NR		NR	
CA	Calcium		NR		NR		NR		33500.		NR		NR	
FE	Iron		NR		NR		NR		7670.		NR		NR	
MG	Magnesium		NR		NR		NR		16400.		NR		NR	
MN	Manganese		NR		NR		NR		674.		NR		NR	
NA	Sodium		NR		NR		NR		NR		NR		NR	
K	Potassium		NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

METAL

SAMPLE ID ------->	060-H-MW04-LF
ORIGINAL ID ----->	060HMW04LF
LAB SAMPLE ID --->	5-120769S
ID FROM REPORT -->	060HMW04LF
SAMPLE DATE ----->	03/28/95
MATRIX ---------->	Water
UNITS ---------->	UG/L

CAS #	Parameter	1354	VAL
SB	Antimony	50.	U
AS	Arsenic	2.	U
BA	Barium	80.7	J
BE	Beryllium	1.	U
CD	Cadmium	3.	U
CR	Chromium	5.	U
CO	Cobalt	3.1	J
CU	Copper	4.	U
PB	Lead	2.6	U
HG	Mercury	0.2	U
NI	Nickel	25.	U
SE	Selenium	2.	U
AG	Silver	5.	UJ
TL	Thallium	2.	UJ
V	Vanadium	4.	U
ZN	Zinc	21.2	U
SN	Tin	15.	U
AL	Aluminum	NR	
CA	Calcium	NR	
FE	Iron	NR	
MG	Magnesium	NR	
MN	Manganese	NR	
NA	Sodium	NR	
K	Potassium	NR	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 METAL-CN						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW03-UF	005-G-MW04-UF	005-G-MW05-LS	005-G-MW07-LS	005-G-MW4A-UF
ORIGINAL ID ----->	005GMW02UF	005GMW03UF	005GMW04UF	005GMW05LS	005GMW07LS	005GMW4AUF
LAB SAMPLE ID --->	120759	120762	120943	120942	120940	120944
SAMPLE DATE ----->	03/28/95	03/28/95	03/29/95	03/29/95	03/29/95	03/29/95
DATE EXTRACTED -->	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95	04/06/95
DATE ANALYZED --->	04/10/95	04/10/95	04/10/95	04/10/95	04/10/95	04/10/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

*** Validation Complete ***

1354 METAL-CN						
SAMPLE ID ------->	005-G-MW4B-UF	060-G-MW01-LF	060-G-MW04-LF	060-H-MW04-LF		
ORIGINAL ID ----->	005GMW4BUF	060GMW01LF	060GMW04LF	060HMW04LF		
LAB SAMPLE ID --->	120945	120760	120763	120764		
SAMPLE DATE ----->	03/29/95	03/28/95	03/28/95	03/28/95		
DATE EXTRACTED -->	04/06/95	04/06/95	04/06/95	04/06/95		
DATE ANALYZED --->	04/10/95	04/10/95	04/10/95	04/10/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 NITRATE						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF	060-G-MW01-LS		
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF	060GMW01LS		
LAB SAMPLE ID --->	120759	120940	120760	120761		
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95	03/28/95		
DATE ANALYZED --->	03/29/95	03/30/95	03/29/95	03/29/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-03-4 Nitrate-N	0.38	0.1 U	0.1 U	0.1 U		

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 OP PEST																	
	SAMPLE ID ------->	005-G-MW02-UF			005-G-MW03-UF			005-G-MW04-UF			005-G-MW05-LS			005-G-MW07-LS			005-G-MW4A-UF		
	ORIGINAL ID ----->	005GMW02UF			005GMW03UF			005GMW04UF			005GMW05LS			005GMW07LS			005GMW4AUF		
	LAB SAMPLE ID --->	120759			120762			120943			120942			120940			120944		
	SAMPLE DATE ----->	03/28/95			03/28/95			03/29/95			03/29/95			03/29/95			03/29/95		
	DATE EXTRACTED -->	04/11/95			04/11/95			04/11/95			04/11/95			04/11/95			04/11/95		
	DATE ANALYZED --->	04/13/95			04/13/95			04/13/95			04/13/95			04/13/95			04/13/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	ug/L		A	ug/L		A	ug/L		A	ug/L		A	ug/L		A	ug/L		A
CAS #	Parameter																		
86-50-0	Guthion	5.	UJ		5.	UJ		5.	UJ		5.	UJ		5.	UJ		5.	UJ	
35400-43-2	Sulprofos	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
2921-88-2	Chloropyrifos	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
56-72-4	Coumaphos	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
8065-48-3	Demeton,O	2.5	UJ		2.5	UJ		2.5	U		2.5	U		2.5	U		2.5	U	
333-41-5	Diazinon	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
62-73-7	Dichlorvos	2.5	U		2.5	U		2.5	U		2.5	U		2.5	U		2.5	U	
298-04-4	Disulfoton	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
13194-48-4	Ethoprop	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
115-90-2	Fensulfothion	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
55-38-9	Fenthion	2.5	U		2.5	U		2.5	U		2.5	U		2.5	U		2.5	U	
150-50-5	Merphos	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
7786-34-7	Mevinphos, Alpha	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
300-76-5	Naled	2.5	U		2.5	U		2.5	U		4.3			2.5	U		2.5	U	
298-00-0	Methyl parathion	2.5	U		2.5	U		2.5	U		2.5	U		2.5	U		2.5	U	
298-02-2	Phorate	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
299-84-3	Ronnel	2.5	U		2.5	U		2.5	U		2.5	U		2.5	U		2.5	U	
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	U		2.5	U		2.5	U		2.5	U		2.5	U		2.5	U	
34643-46-4	Tokuthion	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
327-98-0	Trichloronate	2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ		2.5	UJ	
126-75-0	Demeton,S	2.5	UJ		2.5	UJ		2.5	U		2.5	U		2.5	U		2.5	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 OP PEST											
	SAMPLE ID ------->	005-G-MW4B-UF		007-G-MW01-LS		060-G-MW01-LF		060-G-MW04-LF		060-H-MW04-LF	
	ORIGINAL ID ----->	005GMW4BUF		007GMW01LS		060GMW01LF		060GMW04LF		060HMW04LF	
	LAB SAMPLE ID --->	120945		120946		120760		120763		120764	
	SAMPLE DATE ----->	03/29/95		03/29/95		03/28/95		03/28/95		03/28/95	
	DATE EXTRACTED -->	04/11/95		04/11/95		04/11/95		04/11/95		04/11/95	
	DATE ANALYZED --->	04/13/95		04/13/95		04/13/95		04/13/95		04/13/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	ug/L	A	ug/L	A	ug/L	A	ug/L	A	ug/L	A
CAS #	Parameter										
86-50-0	Guthion	5.	UJ	5.	UJ	5.	UJ	10.	UJ	5.	UJ
35400-43-2	Sulprofos	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
2921-88-2	Chloropyrifos	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
56-72-4	Coumaphos	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
8065-48-3	Demeton,O	2.5	U	2.5	U	2.5	UJ	5.	UJ	2.5	UJ
333-41-5	Diazinon	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
62-73-7	Dichlorvos	2.5	U	2.5	U	2.5	U	5.	UJ	2.5	U
298-04-4	Disulfoton	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
13194-48-4	Ethoprop	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
115-90-2	Fensulfothion	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
55-38-9	Fenthion	2.5	U	2.5	U	2.5	U	5.	UJ	2.5	U
150-50-5	Merphos	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
7786-34-7	Mevinphos, Alpha	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
300-76-5	Naled	2.5	U	2.5	U	2.5	U	5.	UJ	2.5	U
298-00-0	Methyl parathion	2.5	U	2.5	U	2.5	U	5.	UJ	2.5	U
298-02-2	Phorate	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
299-84-3	Ronnel	2.5	U	2.5	U	2.5	U	5.	UJ	2.5	U
22248-79-9	Stirophos (Tetrachlorovinphos)	2.5	U	2.5	U	2.5	U	5.	UJ	2.5	U
34643-46-4	Tokuthion	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
327-98-0	Trichloronate	2.5	UJ	2.5	UJ	2.5	UJ	5.	UJ	2.5	UJ
126-75-0	Demeton,S	2.5	U	2.5	U	2.5	UJ	5.	UJ	2.5	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 PEST																							
	SAMPLE ID ------->	005-G-MW02-UF			005-G-MW03-UF			005-G-MW04-UF			005-G-MW05-LS			005-G-MW07-LS			005-G-MW4A-UF		
	ORIGINAL ID ----->	005GMW02UF			005GMW03UF			005GMW04UF			005GMW05LS			005GMW07LS			005GMW4AUF		
	LAB SAMPLE ID --->	120765			120766			120950			120949			120951			120952		
	SAMPLE DATE ----->	03/28/95			03/28/95			03/29/95			03/29/95			03/29/95			03/29/95		
	DATE EXTRACTED -->	04/03/95			04/03/95			04/03/95			04/03/95			04/03/95			04/04/95		
	DATE ANALYZED --->	04/10/95			04/10/95			04/19/95			04/19/95			04/19/95			04/19/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A
CAS #	Parameter																		
319-84-6	alpha-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
319-85-7	beta-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
319-86-8	delta-BHC	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
58-89-9	gamma-BHC (Lindane)	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
76-44-8	Heptachlor	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
309-00-2	Aldrin	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
1024-57-3	Heptachlor epoxide	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
959-98-8	Endosulfan I	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
60-57-1	Dieldrin	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-55-9	4,4'-DDE	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-20-8	Endrin	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
33213-65-9	Endosulfan II	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-54-8	4,4'-DDD	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
1031-07-8	Endosulfan sulfate	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
50-29-3	4,4'-DDT	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
72-43-5	Methoxychlor	0.5	U		0.5	U		0.5	U		0.5	U		0.5	U		0.5	U	
53494-70-5	Endrin ketone	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
7421-36-3	Endrin aldehyde	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		0.1	U	
5103-71-9	alpha-Chlordane	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
5103-74-2	gamma-Chlordane	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		0.05	U	
8001-35-2	Toxaphene	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
12674-11-2	Aroclor-1016	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11104-28-2	Aroclor-1221	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11141-16-5	Aroclor-1232	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
53469-21-9	Aroclor-1242	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
12672-29-6	Aroclor-1248	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11097-69-1	Aroclor-1254	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	
11096-82-5	Aroclor-1260	1.	U		1.	U		1.	U		1.	U		1.	U		1.	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 PEST												
	SAMPLE ID ------->	005-G-MW4B-UF			060-G-MW01-LF			060-G-MW04-LF			060-H-MW04-LF				
	ORIGINAL ID ----->	005GMW4BUF			060GMW01LF			060GMW04LF			060HMW04LF				
	LAB SAMPLE ID --->	120953			120767			120768			120769				
	SAMPLE DATE ----->	03/29/95			03/28/95			03/28/95			03/28/95				
	DATE EXTRACTED -->	04/04/95			04/03/95			04/03/95			04/03/95				
	DATE ANALYZED --->	04/19/95			04/11/95			04/11/95			04/11/95				
	MATRIX ---------->	Water			Water			Water			Water				
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A		
CAS #	Parameter														
319-84-6	alpha-BHC	0.05	U		0.05	U		0.05	U		0.05	UJ			
319-85-7	beta-BHC	0.05	U		0.05	U		0.05	U		0.05	UJ			
319-86-8	delta-BHC	0.05	U		0.05	U		0.05	U		0.05	UJ			
58-89-9	gamma-BHC (Lindane)	0.05	U		0.05	U		0.05	U		0.05	UJ			
76-44-8	Heptachlor	0.05	U		0.05	U		0.05	U		0.05	UJ			
309-00-2	Aldrin	0.05	U		0.05	U		0.05	U		0.05	UJ			
1024-57-3	Heptachlor epoxide	0.05	U		0.05	U		0.05	U		0.05	UJ			
959-98-8	Endosulfan I	0.05	U		0.05	U		0.05	U		0.05	UJ			
60-57-1	Dieldrin	0.1	U		0.1	U		0.1	U		0.1	UJ			
72-55-9	4,4'-DDE	0.1	U		0.1	U		0.1	U		0.1	UJ			
72-20-8	Endrin	0.1	U		0.1	U		0.1	U		0.1	UJ			
33213-65-9	Endosulfan II	0.1	U		0.1	U		0.1	U		0.1	UJ			
72-54-8	4,4'-DDD	0.1	U		0.1	U		0.1	U		0.1	UJ			
1031-07-8	Endosulfan sulfate	0.1	U		0.1	U		0.1	U		0.1	UJ			
50-29-3	4,4'-DDT	0.1	U		0.1	U		0.1	U		0.1	UJ			
72-43-5	Methoxychlor	0.5	U		0.5	U		0.5	U		0.5	UJ			
53494-70-5	Endrin ketone	0.1	U		0.1	U		0.1	U		0.1	UJ			
7421-36-3	Endrin aldehyde	0.1	U		0.1	U		0.1	U		0.1	UJ			
5103-71-9	alpha-Chlordane	0.05	U		0.05	U		0.05	U		0.05	UJ			
5103-74-2	gamma-Chlordane	0.05	U		0.05	U		0.05	U		0.05	UJ			
8001-35-2	Toxaphene	1.	U		1.	U		1.	U		1.	UJ			
12674-11-2	Aroclor-1016	1.	U		1.	U		1.	U		1.	UJ			
11104-28-2	Aroclor-1221	1.	U		1.	U		1.	U		1.	UJ			
11141-16-5	Aroclor-1232	1.	U		1.	U		1.	U		1.	UJ			
53469-21-9	Aroclor-1242	1.	U		1.	U		1.	U		1.	UJ			
12672-29-6	Aroclor-1248	1.	U		1.	U		1.	U		1.	UJ			
11097-69-1	Aroclor-1254	1.	U		1.	U		1.	U		1.	UJ			
11096-82-5	Aroclor-1260	1.	U		1.	U		1.	U		1.	UJ			

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 SVOA																			
	SAMPLE ID ------->	005-G-MW02-UF			005-G-MW03-UF			005-G-MW04-UF			005-G-MW05-LS			005-G-MW07-LS			005-G-MW4A-UF		
	ORIGINAL ID ----->	005GMW02UF			005GMW03UF			005GMW04UF			005GMW05LS			005GMW07LS			005GMW4AUF		
	LAB SAMPLE ID --->	120765			120766			120950			120949			120951			120952		
	SAMPLE DATE ----->	03/28/95			03/28/95			03/29/95			03/29/95			03/29/95			03/29/95		
	DATE EXTRACTED -->	04/03/95			04/03/95			04/05/95			04/05/95			04/05/95			04/10/95		
	DATE ANALYZED --->	04/13/95			04/13/95			04/27/95			04/27/95			04/28/95			04/28/95		
	MATRIX ---------->	Water			Water			Water			Water			Water			Water		
	UNITS ---------->	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A	UG/L		A
CAS #	Parameter																		
621-64-7	N-Nitroso-di-n-propylamine	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
67-72-1	Hexachloroethane	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
78-59-1	Isophorone	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
88-75-5	2-Nitrophenol	10.	UJ		10.	U		10.	U		10.	U		10.	U		20.	U	
105-67-9	2,4-Dimethylphenol	10.	UJ		10.	U		10.	U		10.	U		10.	U		20.	U	
111-91-1	bis(2-Chloroethoxy)methane	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
120-83-2	2,4-Dichlorophenol	10.	UJ		10.	U		10.	U		10.	U		10.	U		20.	U	
120-82-1	1,2,4-Trichlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
91-20-3	Naphthalene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
106-47-8	4-Chloroaniline	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
87-68-3	Hexachlorobutadiene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
59-50-7	4-Chloro-3-methylphenol	10.	UJ		10.	U		10.	U		10.	U		10.	U		20.	U	
91-57-6	2-Methylnaphthalene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
77-47-4	Hexachlorocyclopentadiene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
88-06-2	2,4,6-Trichlorophenol	10.	UJ		10.	U		10.	U		10.	U		10.	U		20.	U	
95-95-4	2,4,5-Trichlorophenol	25.	UJ		25.	U		25.	U		25.	U		25.	U		50.	U	
91-58-7	2-Chloronaphthalene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
88-74-4	2-Nitroaniline	25.	UJ		25.	UJ		25.	U		25.	U		25.	U		50.	U	
131-11-3	Dimethylphthalate	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
208-96-8	Acenaphthylene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
606-20-2	2,6-Dinitrotoluene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	UJ	
99-09-2	3-Nitroaniline	25.	U		25.	U		25.	U		25.	U		25.	U		50.	U	
83-32-9	Acenaphthene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
51-28-5	2,4-Dinitrophenol	25.	UJ		25.	UJ		25.	UJ		25.	UJ		25.	UJ		50.	UJ	
100-02-7	4-Nitrophenol	25.	UJ		25.	UJ		25.	UJ		25.	UJ		25.	UJ		50.	UJ	
132-64-9	Dibenzofuran	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
121-14-2	2,4-Dinitrotoluene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	UJ	
84-66-2	Diethylphthalate	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
7005-72-3	4-Chlorophenylphenylether	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
86-73-7	Fluorene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
100-01-6	4-Nitroaniline	25.	U		25.	U		25.	U		25.	U		25.	U		50.	U	
534-52-1	4,6-Dinitro-2-methylphenol	25.	UJ		25.	U		25.	UJ		25.	UJ		25.	UJ		50.	UJ	
86-30-6	N-Nitrosodiphenylamine	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
101-55-3	4-Bromophenylphenylether	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
118-74-1	Hexachlorobenzene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	
87-86-5	Pentachlorophenol	25.	UJ		25.	UJ		25.	U		25.	U		25.	U		50.	U	
85-01-8	Phenanthrene	10.	U		10.	U		10.	U		10.	U		10.	U		20.	U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 SVOA													
	SAMPLE ID ------->	005-G-MW02-UF		005-G-MW03-UF		005-G-MW04-UF		005-G-MW05-LS		005-G-MW07-LS		005-G-MW4A-UF	
	ORIGINAL ID ----->	005GMW02UF		005GMW03UF		005GMW04UF		005GMW05LS		005GMW07LS		005GMW4AUF	
	LAB SAMPLE ID --->	120765		120766		120950		120949		120951		120952	
	SAMPLE DATE ----->	03/28/95		03/28/95		03/29/95		03/29/95		03/29/95		03/29/95	
	DATE EXTRACTED -->	04/03/95		04/03/95		04/05/95		04/05/95		04/05/95		04/10/95	
	DATE ANALYZED --->	04/13/95		04/13/95		04/27/95		04/27/95		04/28/95		04/28/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	3.	J
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
108-95-2	Phenol	10.	UJ	10.	U	10.	U	10.	U	10.	U	20.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
95-57-8	2-Chlorophenol	10.	UJ	10.	U	10.	U	10.	U	10.	U	20.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	7.	J	10.	U	20.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	UJ	10.	U	10.	U	10.	U	10.	U	20.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	20.	UJ
106-44-5	4-Methylphenol (p-Cresol)	10.	UJ	10.	U	10.	U	10.	U	10.	U	20.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	20.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 SVOA											
	SAMPLE ID ------->	005-G-MW4B-UF		007-G-MW01-LS		060-G-MW01-LF		060-G-MW04-LF		060-H-MW04-LF	
	ORIGINAL ID ----->	005GMW4BUF		007GMW01LS		060GMW01LF		060GMW04LF		060HMW04LF	
	LAB SAMPLE ID --->	120953		121028		120767		120768		120769	
	SAMPLE DATE ----->	03/29/95		03/29/95		03/28/95		03/28/95		03/28/95	
	DATE EXTRACTED -->	04/05/95		04/05/95		04/03/95		04/03/95		04/03/95	
	DATE ANALYZED --->	04/28/95		04/28/95		04/13/95		04/13/95		04/13/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter										
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	UR	10.	UR	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	UR	10.	UR	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	UR	10.	UR	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	UR	10.	UR	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	UR	10.	UR	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	UR	25.	UR	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	UJ	25.	UJ	25.	UJ
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	UJ	10.	UJ	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	UJ	25.	UR	25.	UR	25.	UJ	25.	UJ
100-02-7	4-Nitrophenol	25.	UJ	25.	UR	25.	UR	25.	UJ	25.	UJ
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	UJ	10.	UJ	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	UJ	25.	UR	25.	UR	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	U	25.	UR	25.	UR	25.	UJ	25.	UJ
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 SVOA												
	SAMPLE ID ------->	005-G-MW4B-UF		007-G-MW01-LS		060-G-MW01-LF		060-G-MW04-LF		060-H-MW04-LF		
	ORIGINAL ID ----->	005GMW4BUF		007GMW01LS		060GMW01LF		060GMW04LF		060HMW04LF		
	LAB SAMPLE ID --->	120953		121028		120767		120768		120769		
	SAMPLE DATE ----->	03/29/95		03/29/95		03/28/95		03/28/95		03/28/95		
	DATE EXTRACTED -->	04/05/95		04/05/95		04/03/95		04/03/95		04/03/95		
	DATE ANALYZED --->	04/28/95		04/28/95		04/13/95		04/13/95		04/13/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter											
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U	10.	U	
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	UJ	10.	UJ	10.	U	10.	U	10.	U	
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	
108-95-2	Phenol	10.	U	10.	UR	10.	UR	10.	U	10.	U	
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	
95-57-8	2-Chlorophenol	10.	U	10.	UR	10.	UR	10.	U	10.	U	
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	UJ	10.	U	
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	UR	10.	UR	10.	U	10.	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ	10.	UJ	10.	UJ	10.	UJ	10.	UJ	
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	UR	10.	UR	10.	U	10.	U	
98-95-3	Nitrobenzene	1.	J	10.	U	10.	U	10.	U	10.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 TOTAL PHOS							
	SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF	060-G-MW01-LS		
	ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF	060GMW01LS		
	LAB SAMPLE ID --->	120759	120940	120760	120761		
	SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95	03/28/95		
	DATE EXTRACTED -->	04/17/95	04/17/95	04/17/95	04/17/95		
	DATE ANALYZED --->	04/17/95	04/17/95	04/17/95	04/17/95		
	MATRIX ---------->	Water	Water	Water	Water		
	UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS #	Parameter						
9999900-03-5	Phosphorus Total	0.063	1200.	0.068	0.43		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 TPH						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW03-UF	005-G-MW04-UF	005-G-MW05-LS	005-G-MW07-LS	005-G-MW4A-UF
ORIGINAL ID ----->	005GMW02UF	005GMW03UF	005GMW04UF	005GMW05LS	005GMW07LS	005GMW4AUF
LAB SAMPLE ID --->	120759	120762	120943	120942	120940	120944
SAMPLE DATE ----->	03/28/95	03/28/95	03/29/95	03/29/95	03/29/95	03/29/95
DATE EXTRACTED -->	04/21/95	04/21/95	04/24/95	04/24/95	04/24/95	04/24/95
DATE ANALYZED --->	04/21/95	04/21/95	04/24/95	04/24/95	04/24/95	04/24/95
MATRIX ---------->	Water	Water	Water	Water	Water	Water
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	2. U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 TPH						
SAMPLE ID ------->	005-G-MW4B-UF	060-G-MW01-LF	060-G-MW04-LF	060-H-MW04-LF		
ORIGINAL ID ----->	005GMW4BUF	060GMW01LF	060GMW04LF	060HMW04LF		
LAB SAMPLE ID --->	120945	120760	120763	120764		
SAMPLE DATE ----->	03/29/95	03/28/95	03/28/95	03/28/95		
DATE EXTRACTED -->	04/24/95	04/21/95	04/21/95	04/21/95		
DATE ANALYZED --->	04/24/95	04/21/95	04/21/95	04/21/95		
MATRIX ---------->	Water	Water	Water	Water		
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A		
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 TSS						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF			
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF			
LAB SAMPLE ID --->	120759	120940	120760			
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95			
DATE ANALYZED --->	04/03/95	04/04/95	04/03/95			
MATRIX ---------->	Water	Water	Water			
UNITS ---------->	mg/L A	mg/L A	mg/L A			
CAS # Parameter						
9999900-03-7 Total Suspended Solids (TSS)	7. U	1700.	19.			

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 Turbidity						
SAMPLE ID ------->	005-G-MW02-UF	005-G-MW07-LS	060-G-MW01-LF			
ORIGINAL ID ----->	005GMW02UF	005GMW07LS	060GMW01LF			
LAB SAMPLE ID --->	120759	120940	120760			
SAMPLE DATE ----->	03/28/95	03/29/95	03/28/95			
DATE ANALYZED --->	03/29/95	03/30/95	03/29/95			
MATRIX ---------->	Water	Water	Water			
UNITS ---------->	NTU A	NTU A	NTU A			
CAS # Parameter						
9999900-04-4 Turbidity	9.9	260.	40.			

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1354 VOA	SAMPLE ID ------->	005-G-MW02-UF		005-G-MW03-UF		005-G-MW04-UF		005-G-MW05-LS		005-G-MW07-LS		005-G-MW4A-UF	
	ORIGINAL ID ----->	005GMW02UF		005GMW03UF		005GMW04UF		005GMW05LS		005GMW07LS		005GMW4AUF	
	LAB SAMPLE ID --->	120765		120766		120950		120949		120951		120952	
	SAMPLE DATE ----->	03/28/95		03/28/95		03/29/95		03/29/95		03/29/95		03/29/95	
	DATE ANALYZED --->	04/07/95		04/05/95		04/06/95		04/07/95		04/06/95		04/06/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	UJ	10.	U	10.	UJ	38.	J	10.	UJ	10.	UJ
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	8.	J	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	3.	J
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	1.	J	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1354 VOA												
	SAMPLE ID ------->	005-G-MW4B-UF		060-G-MW01-LF		060-G-MW04-LF		060-H-MW04-LF				
	ORIGINAL ID ----->	005GMW4BUF		060GMW01LF		060GMW04LF		060HMW04LF				
	LAB SAMPLE ID --->	120953		120767		120768		120769				
	SAMPLE DATE ----->	03/29/95		03/28/95		03/28/95		03/28/95				
	DATE ANALYZED --->	04/06/95		04/07/95		04/05/95		04/04/95				
	MATRIX ---------->	Water		Water		Water		Water				
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A			
CAS #	Parameter											
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	UJ			
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	UJ			
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U			
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U			
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U			
67-64-1	Acetone	10.	UJ	14.	UJ	10.	U	10.	U			
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U			
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U			
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U			
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U			
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U			
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U			
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U			
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U			
56-23-5	Carbon tetrachloride	4.	J	10.	U	10.	U	10.	U			
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U			
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U			
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U			
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U			
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U			
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U			
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U			
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U			
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U			
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U			
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U			
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U			
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U			
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U			
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U			
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U			
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U			

*** Validation Complete ***

VALIDATA

Chemical Services, Inc.

P. O. Box 930422, Norcross, Ga. 30093

DATA VALIDATION SUMMARY REPORT

COMPANY:	Ensafe/Allen & Hoshall
SITE NAME:	NAS Memphis
PROJECT NUMBER:	8500.024
CONTRACTED LAB:	National Environmental Testing, Inc.
QA/QC LEVEL:	Level III
EPA SOW/METHOD:	EPA 1990 SOW
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 1994; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* 1994
SAMPLE MATRICES:	Soil and Water
TYPES OF ANALYSES:	Volatile Organics (VOA), Semivolatile Organics (SVOA), Pesticides/PCB's (P/PCB), Total Metals and Cyanide (Me/CN), Total Petroleum Hydrocarbons (TPH), Herbicides (HERB), TCLP Lead (TCLP), Organophosphorus Pesticides (OPPE)
SDG NUMBER:	1358

SAMPLES:

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOA	P/PCB	HERB	TPH
060SHA0101	121070/3	Soil	X	X	X	X	X
060SHA0101DL	1310732DL	Soil			X		
060SHA0102	121077/80	Soil	X	X	X	X	X
060SHA0102MS	121080MS	Soil		X			
060SHA0102MSD	121080MSD	Soil		X			
060SHA0201	121071/4	Soil	X	X	X	X	X
060SHA0201DL	1210745DL	Soil			X		
060SHA0202	121078/81	Soil	X	X	X	X	X
060SHA0301	121072/5	Soil	X	X	X	X	X
060SHA0301MS	121072MS	Soil				X	
060SHA0301MSD	121072MSD	Soil				X	
060SHA0301DL	1210755DL	Soil			X		
060SHA0302	121079/82	Soil	X	X	X	X	X
060SHA0302DL	121082DL	Soil	X				
TB1	121076	Water	X				
TB2	121083	Water	X				

Client Sample #:	Lab Sample #:	Matrix	Me/CN	TCLP	OPPE
060SHA0101	121488/073	Soil	X	X	X
060SHA0101MS	121073MS	Soil			X
060SHA0101MSD	121073MSD	Soil			X
060SHA0102	12491/080	Soil	X	X	X
060SHA0102MS	121080MS	Soil	X		
060SHA0102MD	121080MD	Soil	X		
060SHA0201	121489/71	Soil	X	X	X
060SHA0202	121492/78	Soil	X	X	X
060SHA0301	121490/75	Soil	X	X	X
060SHA0302	121493/82	Soil	X	X	X

MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE, MD = MATRIX DUPLICATE, TB = TRIP BLANK, DL = DILUTION

DATA REVIEWER(S): Amy L. Hogan, Marvin L. Smith

RELEASE SIGNATURE: Kevin C. Harmon

Data Qualifier Definitions:

J	-	The associated numerical value is an estimated quantity.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1358 Organics and Inorganics

SAMPLES: 060SHA0101, 060SHA0101DL, 060SHA0101MS, 060SHA0101MSD, 060SHA0102, 060SHA0102MS, 060SHA0102MSD, 060SHA0102MD, 060SHA0201, 060SHA0201DL, 060SHA0202, 060SHA0301, 060SHA0301DL, 060SHA0301MS, 060SHA0301MSD, 060SHA0302, 060SHA0302DL, TB1, TB2

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/05/95 at 07:57 on instrument HP5970H:

acetone	31.0%
2-butanone	36.9%
4-methyl-2-pentanone	28.2%
2-hexanone	33.5%

The positive and non-detect results for these compounds in associated samples 060SHA0302DL and 060SHA0102 were flagged as estimated (J) and (UJ).

The Percent Difference (%D) of carbon disulfide (25.9%) exceeded the 25% QC limit for the continuing calibration run on 4/06/95 at 18:50 on instrument HP5970H. The results for this compound in associated samples 060SHA0101 and 060SHA0301, which were both non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the

continuing calibration run on 4/08/95 at 12:06 on instrument HP5970H:

vinyl chloride	34.3%
acetone	26.8%
2-butanone	26.5%
carbon tetrachloride	25.6%
4-methyl-2-pentanone	25.3%
2-hexanone	27.7%

The results for these compounds in associated sample 060SHA0201, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

Acetone was detected at 3.0 ug/kg in soil method blank VBLK040895H. The detection of this compound in associated sample 60SHA0201, which was less than 10X the blank amount, was flagged as undetected (U) with the detection limit being raised to the level of contamination in the sample.

Field Blanks, Trip Blanks and Equipment Blanks:

Acetone, carbon disulfide and toluene were detected at 9 ug/L, 2 ug/L and 1 ug/L, respectively, in field blank 005F032795. There were no associated positive sample results for carbon disulfide. Positive detections of acetone and toluene in associated samples 060SHA0101, 060SHA0301 and 060SHA0302 less than 10X the blank contamination were flagged as undetected (U) with the deteciton limit being raised to the level of contamination in each sample.

TIC's:

There were no TIC's reported in the blanks for this SDG.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met, so no action was taken.

VI.) Matrix Spike/Matrix Spike Duplicate (MS/MSD):

There were no MS / MSD analyses requested for this fraction for this SDG. No action was required.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG. No action was required.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

All remaining laboratory data were acceptable with qualification.

SEMIVOLATILE ORGANICS

I.) Holding Times:

The holding time from sample date to extraction of samples 060SHA0302 was 16 days, which exceeded the 14 day QC limit. All results for this sample, which consisted entirely of non-detects, were flagged as estimated (UJ). All other Holding Time criteria were met. No further action was required.

II.) GC/MS Tuning:

All GC/MS Tuning criteria were met, so no action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/21/95 at 14:15 on instrument HP5970J:

4,6-dinitro-2-methylphenol	41.3%
4-bromophenyl-phenylether	28.3%
pyrene	25.4%

All results for these compounds in associated sample 060SHA0301, which consisted entirely of non-detects, were flagged as estimated (UJ).

The percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/24/95 at 10:14 on instrument HP5970J:

2,4-dinitrophenol	27.7%
4-nitrophenol	27.7%

The results for these compounds in associated samples 060SHA0101 and 060SHA0102, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Difference (%D) of 4-nitrophenol (27.7%) exceeded the 25% QC limit for the continuing calibration run on 4/25/95 at 11:35 on instrument HP5970J. The results for this compound in associated samples 060SHA0202 and 060SHA0302, which were both non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/27/95 at 13:57 on instrument HP5970J:

2,2'-oxybis(1-chloropropene)	50.4%
2,4-dinitrophenol	26.1%
4-nitrophenol	36.6%
4,6-dinitro-2-methylphenol	43.2%

The results for these compounds in associated sample 060SHA0201, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

2-Methylnaphthalene, di-n-butylphthalate and bis(2-ethylhexyl)phthalate were detected at 34 ug/kg, 240 ug/kg and 39 ug/kg, respectively, in soil method blank SBLK040695J. The positive result for bis(2-ethylhexyl)phthalate in associated sample 060SHA0302, which was less than 10X the blank amount, was flagged as undetected (U) with the detection limit being raised to the level of contamination in the sample. There were no positive detections of the other compounds in the associated samples. No further action was necessary.

V.) Surrogate Recoveries:

The Percent Recovery (%R) of 2-fluorobiphenyl in the following samples exceeded the 30-115% QC limits:

060SHA0101	116%
060SHA0201	119%

Since only one surrogate recovery was outside the QC limits for each sample, no action was required. It was noted that the laboratory did not reanalyze the samples.

VI.) Matrix Spike / Matrix Spike Duplicate:

All MS/ MSD criteria were met. No action was necessary.

VII.) Field Duplicates:

There were no field duplicates associated with this SDG. No action was taken.

VIII.) Internal Standards Performance:

All Internal Standard Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met, so no action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

All laboratory data were acceptable with qualification.

PESTICIDES/PCB's

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was required.

III.) Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/25/95 at 03:47 on primary column RTX35:

4,4'-DDT	39.6%
methoxychlor	37.0%

The positive and non-detect results for these compounds in associated samples 060SHA0101, 060SHA0201 and 060SHA0301 were flagged as estimated (J) and (UJ).

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Surrogate Recoveries:

The Percent Recovery of TCX exceeded the 30-150% QC limits on the confirmation column for sample 060SHA0201DL. The positive result for methoxychlor was flagged as estimated (J).

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

There were no MS / MSD analyses requested for this fraction in this SDG. No action was required.

VII.) TCL Compound Identification:

Pesticide/PCB Identification Summary (PIS):

All PIS criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No action was taken.

IX.) Pesticide Cleanup Check:

Florisil Cartridge Check:

All criteria were met, so no action was taken.

Gel Permeation Chromatography (GPC):

All GPC criteria were met, so no action was necessary.

X.) Overall Assessment of Data/General:

All laboratory data were acceptable with qualification.

ORGANOPHOSPHORUS PESTICIDES

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) of the following compounds exceeded the 20% QC limit for the initial calibration run on 4/05/95:

alpha mevinphos	28.3%
fensulfothion	31.9%
guthion	26.5%

The associated sample results for these compounds, which consisted entirely of non-detects, were flagged as estimated (UJ).

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/13/95 at 22:30:

Compound	Primary %D	Confirmation %D
ethoprop	46.2	41.3
phorate	30.9	
s-demeton	31.1	
diazinon	27.4	
disulfoton	39.0	
chlorpyrifos	46.6	
trichloronate	27.7	26.5
merphos	39.6	36.3
tokuthion	35.3	
fensulfothion	38.8	
sulprofos	34.6	27.6
guthion	70.5	
coumophos	137	

The results for these compounds in associated samples 060SHA0101, 060SHA0102, 060SHA0201, 060SHA0301 and 060SHA0302, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/14/95 at 15:43:

Compound	Primary %D	Confirmation %D
alpha mervinphos	36.8	29.0
o,demeton	41.8	58.7
ethoprop	59.8	56.2
naled	46.5	
phorate	36.1	28.5
s,demeton	56.6	48.6
diazinon	52.5	
disulfoton	39.6	33.3
methyl parathion	61.5	47.9
ronnel	44.7	37.3
fenthion	69.9	41.0
chlorpyrifos	46.9	251
trichloronate	42.2	44.3
merphos	52.4	44.8
tokuthion	52.4	
fensulfothion	146	82.9
stirophos	33.2	
sulprofos	49.1	42.1
guthion	256	146
coumophos	204	67.4

All results for these compounds not previously flagged in associated samples 060SHA0101, 060SHA0102, 060SHA0201, 060SHA0301 and 060SHA0302, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/17/95 at 10:11:

Compound	Primary %D	Confirmation %D
dichlorvos	77.4	
alpha mervinphos	64.4	
o,demeton		49.8
ethoprop		51.8
naled	85.5	
phorate		27.3
s,demeton		38.6
diazinon	29.5	
disulfoton		33.4
methyl parathion	30.9	37.3
ronnel	37.5	27.4
fenthion		33.7
chlorpyrifos	27.7	36.1

Compound	Primary %D	Confirmation %D
trichloronate		44.3
merphos	43.8	
fensulfothion	75.7	80.5
stirophos	59.3	
sulprofos		53.8
guthion	149	175
coumophos	122	73.0

All results for these compounds in associated sample 060SHA0202, which consisted entirely of non-detects, were flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria for the method was met. No action was required.

VI.) Laboratory Control Sample

The Percent Recoveries (%R's) of the following compounds were outside the 40-150% QC limits for NLCS14105:

naled	39.6%
merphos	8.2%
fensulfothion	170%
coumophos	221%

All results for naled, which consisted entirely of non-detects, in the associated samples were previously flagged based on the associated continuing calibrations. There were no positive detections of fensulfothion and coumophos, so no action was necessary. The Percent Recovery of merphos was less than 10%. The non-detect results for merphos were rejected in all samples associated with this SDG.

VII.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

The Percent Recoveries (%R's) and Relative Percent Differences (RPD's) of the following compounds were outside the 50-140% and 15% QC limits, respectively, for samples 060SHA0101MS and 060SHA0101MSD:

Compound	MS %R	MSD %R	RPD
naled	43	27	47
methyl parathion	141		17

Compound	MS %R	MSD %R	RPD
dichlorvos			20
alpha-mervinphos			20
o,demeton			17
ethoprop			18
phorate			16
diazinon			19
disulfoton			16
ronnel			20
fenthion	149		20
merphos	0	0	
fensulfothion	270	208	26
guthion	254	200	24
coumophos	265	211	23
tokuthion			19
stirophos			23
sulprofos			17

The non-detect result for diclorvos in associated sample 060SHA0101 was flagged as estimated (UJ). Since the %R for merphos was less than 10%, the non-detect result for this compound in sample 060SHA0101 was rejected (R). The results for the other compounds in associated sample 060SHA0101 were previously flagged as estimated (UJ) based on the associated continuing calibration. No further action was necessary.

VIII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG.

X.) Overall Assessment of Data/General:

The non-detect results for merphos was rejected in all samples due to low LCS Recoveries. All remaining data were acceptable with qualification.

HERBICIDES

I.) Holding Times:

The number of days between sampling date and extraction date exceeded the 14 day holding time for the following samples:

060SHA0101	20
060SHA0102	19
060SHA0201	20
060SHA0202	19
060SHA0301	20
060SHA0302	19

The results for these samples, which consisted entirely of non-detects, were flagged as estimated (UJ).

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration :

The Percent Relative Standard Deviations (%RSD's) of the following compounds exceeded the 20% QC limit for the initial calibration run on 3/30/95:

MCPP	34.9%
dinoseb	45.8%

The results for these compounds in the samples for this SDG, which consisted entirely of non-detects, were previously flagged as estimated (UJ) based on Holding Time criteria. No further action was required.

Continuing Calibration:

The Percent Difference (%D) of dinoseb (80.3%) exceeded the 25% QC limit for the continuing calibration run on 4/20/95 at 00:50. The results for this compound in the associated samples were previously flagged as estimated (UJ) based on Holding Time criteria. No further action was required.

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

The Percent Recoveries (%R's) and Relative Percent Differences (RPD's) of the following compounds were outside the 10-150% and 20% QC limits, respectively, for samples 060SHA0301MS and 060SHA0301MSD:

Compound	MS %R	MSD %R	RPD
dalapon	0	0	
silvex	194	198	
dinoseb	0	0	
dicamba			38
2,4-DB			52

Since the %R's for dalapon and dinoseb were less than 10%, the associated non-detect results in sample 060SHA0301 were rejected (R). The results for the other compounds were previously flagged as estimated in associated sample 060SHA0301. No further action was required.

VII.) LCS Recoveries:

The Percent Recovery (%R) of MCPP (160%) was outside the 10-150% QC limits for LCS sample HLCS0412S. The results for these compounds were previously flagged as estimated (UJ) based on Holding Time criteria. No further action was required.

VIII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

IX.) Field Duplicates:

There were no field duplicates associated with this SDG. No action was required.

X.) Overall Assessment of Data/General:

The non-detect results for dalapon and dinoseb were rejected in sample 060SHA0301 due to 0% recoveries in the MS / MSD samples. All remaining data were acceptable with qualification.

TOTAL METALS and CYANIDE

I.) Holding Times:

The samples listed below exceeded the 28 day holding time for mercury:

Client Sample #:	Days between sampling and analysis
060SHA0101	29
060SHA0201	29
060SHA0301	29

The results for mercury in the associated samples, which consisted entirely of non-detects, were flagged as estimated (UJ).

II.) Calibration:

All Calibration criteria were met. No action was required.

III.) Blanks:

The following blank result represents the highest detection associated with the samples and was used for data qualification:

Blank Type/ID#	Element	Max. Conc.	Action Level mg/kg
PB	zinc	1.8 ug/Kg	9.0

PB = Preparation Blank

There were no sample results greater than the IDL but less than 5X the blank amount (Action Level mg/kg for soil samples) for which the contaminated blank was an associated calibration or field blank. No action was required.

The following analytes had negative results with absolute values greater than the IDL's:

Blank Type/ID#	Analyte	Neg. Conc.	5X Conc. (mg/kg)
CCB2	thallium	-2.40 ug/L	2.40
CCB2	tin	-25.4 ug/L	25.4

CCB = Continuing Calibration Blank

All associated positive sample results less than 5X the absolute value of the negative blank result were flagged as estimated (J) and all non-detects were flagged as estimated (UJ).

IV.) ICP Interference Check Sample Results:

All Interference Check Sample criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

All Serial Dilution criteria were met, so no action was necessary.

VI.) Laboratory Control Samples (LCS):

The Percent Recoveries (%R's) of the following analytes were outside the 80-120% QC limits for the Laboratory Control Sample associated with this SDG:

antimony	126%
arsenic	68.7%
mercury	70.1%

There were no positive results for antimony in any samples for this SDG. No action was required. The positive and non-detect results for arsenic and mercury in all associated samples for this SDG were flagged as estimated (J) and (UJ).

VII.) Duplicate Sample Analysis:

All Duplicate Sample criteria were met. No action was necessary.

VIII.) Matrix Spike Recoveries:

The Percent Recoveries (%R's) of the following analytes were below the 75-125% QC limits for spiked sample 060SHA0102S:

antimony	34.7%
selenium	68.6%
silver	67.6%

The results for these analytes in the associated samples were flagged as estimated (J) and (UJ).

IX.) Field Duplicates:

No designated field duplicates were provided for this SDG. No action was taken.

X.) Furnace Atomic Absorption QC:

The Post Digestion Percent Recovery (%R) of antimony (139%) exceeded the 85-115% QC limits for sample 060SHA0102. The result for antimony in this sample was a non-detect. No action was required.

XI.) Sample Result, Calculation/Transcription Verification:

All criteria were met, so no action was taken.

XII.) Quarterly Verification of Instrumental Parameters:

All criteria met, so no action was taken.

XIII.) Overall Assessment of Data/General:

All laboratory data were acceptable with qualification.

TCLP LEAD

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

All Calibration criteria were met. No action was required.

III.) Blanks:

There were no detections in the method blanks associated with this analysis. No action was necessary.

IV.) ICP Interference Check Sample Results:

All Interference Check Sample criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

All Serial Dilution criteria were met, so no action was necessary.

VI.) Laboratory Control Samples (LCS):

All Laboratory Control Sample criteria were met. No action was required.

VII.) Duplicate Sample Analysis:

All Duplicate Sample criteria were met. No action was necessary.

VIII.) Matrix Spike Recoveries:

All MS / MSD criteria were met. No action was required.

IX.) Field Duplicates:

No designated field duplicates were provided for this SDG.

X.) Furnace Atomic Absorption QC:

All GFAA criteria were met. No action was necessary.

XI.) Sample Result, Calculation/Transcription Verification:

All criteria were met, so no action was taken.

XII.) Quarterly Verification of Instrumental Parameters:

All criteria met, so no action was taken.

XIII.) Overall Assessment of Data/General:

All laboratory data were acceptable without qualification.

TOTAL PETROLEUM HYDROCARBONS

I.) Holding Times:

All samples were extracted and analyzed within required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Laboratory Control Samples (LCS):

All LCS Recovery criteria were met, so no action was necessary.

VI.) Matrix Spike/Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1358 HERB													
	SAMPLE ID ------->	060-S-HA01-01		060-S-HA01-02		060-S-HA02-01		060-S-HA02-02		060-S-HA03-01		060-S-HA03-02	
	ORIGINAL ID ----->	060SHA0101		060SHA0102		060SHA0201		060SHA0202		060SHA0301		060SHA0302	
	LAB SAMPLE ID --->	121070		121077		121071		121078		121072		121079	
	SAMPLE DATE ----->	03/30/95		03/31/95		03/30/95		03/31/95		03/30/95		03/31/95	
	DATE EXTRACTED -->	04/19/95		04/19/95		04/19/95		04/19/95		04/19/95		04/19/95	
	DATE ANALYZED --->	04/20/95		04/19/95		04/20/95		04/19/95		04/20/95		04/19/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A
CAS #	Parameter												
94-82-6	2,4-DB	95.	UJ	9.5	UJ	95.	UJ	9.5	UJ	9.5	UJ	9.5	UJ
88-85-7	Dinoseb	47.	UJ	4.7	UJ	47.	UJ	4.7	UJ	4.7	UR	4.7	UJ
93-76-5	2,4,5-T	9.5	UJ	0.95	UJ	9.4	UJ	0.95	UJ	0.95	UJ	0.95	UJ
93-72-1	2,4,5-TP (Silvex)	9.5	UJ	0.95	UJ	9.4	UJ	0.95	UJ	0.95	UJ	0.95	UJ
75-99-0	Dalapon	230.	UJ	23.	UJ	230.	UJ	23.	UJ	23.	UR	23.	UJ
1918-00-9	Dicamba	9.4	UJ	0.94	UJ	9.4	UJ	0.94	UJ	0.94	UJ	0.94	UJ
120-36-5	Dichlorprop	94.	UJ	9.4	UJ	94.	UJ	9.4	UJ	9.4	UJ	9.4	UJ
94-74-6	MCPA	9400.	UJ	940.	UJ	9400.	UJ	940.	UJ	940.	UJ	940.	UJ
93-65-2	MCPP	9400.	UJ	940.	UJ	9400.	UJ	940.	UJ	940.	UJ	940.	UJ
94-75-7	2,4-D	94.	UJ	9.4	UJ	94.	UJ	9.4	UJ	9.4	UJ	9.4	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1358 METAL	SAMPLE ID ------->	060-S-HA01-01		060-S-HA01-02		060-S-HA02-01		060-S-HA02-02		060-S-HA03-01		060-S-HA03-02	
	ORIGINAL ID ----->	060SHA0101		060SHA0102		060SHA0201		060SHA0202		060SHA0301		060SHA0302	
	LAB SAMPLE ID --->	9-121073S		1-121080S		9-121074S		1-121081S		9-121075S		1-121082S	
	SAMPLE DATE ----->	03/30/95		03/31/95		03/30/95		03/31/95		03/30/95		03/31/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter												
SB	Antimony	8.9	UJ	9.8	UJ	9.4	UJ	9.9	UJ	8.9	UJ	10.4	UJ
AS	Arsenic	3.8	J	7.	J	6.9	J	5.5	J	3.6	J	9.4	J
BA	Barium	84.1		76.8		80.7		94.1		52.5		65.6	
BE	Beryllium	0.31	J	0.45	J	0.47	J	0.46	J	0.37	J	0.44	J
CD	Cadmium	1.9		2.5		4.4		2.5		2.4		2.9	
CR	Chromium	10.6		15.6		15.5		12.8		11.9		14.	
CO	Cobalt	6.2	J	9.	J	8.2	J	7.8	J	8.5	J	6.6	J
CU	Copper	11.3		15.9		14.4		9.3		7.2		11.	
PB	Lead	33.4		14.7		48.5		9.2		11.4		11.8	
HG	Mercury	0.11	UJ	0.12	UJ	0.11	UJ	0.12	UJ	0.11	UJ	0.12	UJ
NI	Nickel	5.9	J	8.4	J	15.8		5.6	J	7.7	J	9.	J
SE	Selenium	0.45	UJ	0.61	J	0.47	UJ	0.49	UJ	0.45	UJ	0.52	UJ
AG	Silver	0.67	UJ	0.73	UJ	0.7	UJ	0.74	UJ	0.67	UJ	0.78	UJ
TL	Thallium	0.45	UJ	0.49	UJ	0.47	UJ	0.49	UJ	0.45	UJ	0.52	UJ
V	Vanadium	16.8		31.8		18.		29.7		17.9		29.2	
ZN	Zinc	43.9		46.5		70.3		28.8		24.1		36.2	
SN	Tin	3.3	UJ	3.7	UJ	3.5	UJ	3.7	UJ	3.3	UJ	3.9	UJ

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1358 METAL-CN						
SAMPLE ID ------->	060-S-HA01-01	060-S-HA01-02	060-S-HA02-01	060-S-HA02-02	060-S-HA03-01	060-S-HA03-02
ORIGINAL ID ----->	060SHA0101	060SHA0102	060SHA0201	060SHA0202	060SHA0301	060SHA0302
LAB SAMPLE ID --->	121070	121077	121071	121078	121072	121079
SAMPLE DATE ----->	03/30/95	03/31/95	03/30/95	03/31/95	03/30/95	03/31/95
DATE EXTRACTED -->	04/10/95	04/10/95	04/10/95	04/10/95	04/10/95	04/10/95
DATE ANALYZED --->	04/13/95	04/13/95	04/13/95	04/13/95	04/13/95	04/13/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS # Parameter						
CN Cyanide	0.53 U	0.66 U	0.61 U	0.59 U	0.53 U	0.63 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1358 OP PEST													
	SAMPLE ID ------->	060-S-HA01-01		060-S-HA01-02		060-S-HA02-01		060-S-HA02-02		060-S-HA03-01		060-S-HA03-02	
	ORIGINAL ID ----->	060SHA0101		060SHA0102		060SHA0201		060SHA0202		060SHA0301		060SHA0302	
	LAB SAMPLE ID --->	121070		121077		121071		121078		121072		121079	
	SAMPLE DATE ----->	03/30/95		03/31/95		03/30/95		03/31/95		03/30/95		03/31/95	
	DATE EXTRACTED -->	04/10/95		04/10/95		04/10/95		04/10/95		04/10/95		04/10/95	
	DATE ANALYZED --->	04/14/95		04/14/95		04/14/95		04/17/95		04/14/95		04/14/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A	ug/Kg	A
CAS #	Parameter												
86-50-0	Guthion	180.	UJ	190.	UJ	190.	UJ	210.	UJ	190.	UJ	210.	UJ
35400-43-2	Sulprofos	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
2921-88-2	Chlorpyrifos	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
56-72-4	Coumaphos	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
8065-48-3	Demeton,O	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
333-41-5	Diazinon	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
62-73-7	Dichlorvos	92.	UJ	96.	U	95.	U	100.	UJ	94.	U	100.	U
298-04-4	Disulfoton	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
13194-48-4	Ethoprop	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
115-90-2	Fensulfothion	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
55-38-9	Fenthion	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
150-50-5	Merphos	92.	UR	96.	UR	95.	UR	100.	UR	94.	UR	100.	UR
7786-34-7	Mevinphos, Alpha	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
300-76-5	Naled	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
298-00-0	Methyl parathion	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
298-02-2	Phorate	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
299-84-3	Ronnel	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
22248-79-9	Stirophos (Tetrachlorovinphos)	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
34643-46-4	Tokuthion	92.	UJ	96.	UJ	95.	UJ	100.	U	94.	UJ	100.	UJ
327-98-0	Trichloronate	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ
126-75-0	Demeton,S	92.	UJ	96.	UJ	95.	UJ	100.	UJ	94.	UJ	100.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1358 PEST	SAMPLE ID ------->	060-S-HA01-01		060-S-HA01-02		060-S-HA02-01		060-S-HA02-02		060-S-HA03-01		060-S-HA03-02	
	ORIGINAL ID ----->	060SHA0101		060SHA0102		060SHA0201		060SHA0202		060SHA0301		060SHA0302	
	LAB SAMPLE ID --->	121073		121080		121074		121081		121075		121082	
	SAMPLE DATE ----->	03/30/95		03/31/95		03/30/95		03/31/95		03/30/95		03/31/95	
	DATE EXTRACTED -->	04/09/95		04/09/95		04/09/95		04/09/95		04/09/95		04/09/95	
	DATE ANALYZED --->	04/24/95		04/26/95		04/25/95		04/26/95		04/25/95		04/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
319-84-6	alpha-BHC	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
319-85-7	beta-BHC	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
319-86-8	delta-BHC	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
76-44-8	Heptachlor	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
309-00-2	Aldrin	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
959-98-8	Endosulfan I	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
60-57-1	Dieldrin	4.4		6.9		3.9	U	4.2	U	7.7		10.	
72-55-9	4,4'-DDE	3.7	U	4.1	U	3.9	U	4.2	U	4.1	U	3.6	U
72-20-8	Endrin	3.7	U	4.1	U	3.9	U	4.2	U	4.1	U	3.6	U
33213-65-9	Endosulfan II	3.7	U	4.1	U	3.9	U	4.2	U	4.1	U	3.6	U
72-54-8	4,4'-DDD	3.7	U	4.1	U	3.9	U	4.2	U	4.1	U	3.6	U
1031-07-8	Endosulfan sulfate	3.7	U	4.1	U	3.9	U	4.2	U	4.1	U	3.6	U
50-29-3	4,4'-DDT	3.7	UJ	4.1	U	3.9	UJ	4.2	U	4.1	UJ	3.6	U
72-43-5	Methoxychlor	1.5	J	21.	U	8.6	J	22.	U	21.	UJ	19.	U
53494-70-5	Endrin ketone	3.7	U	4.1	U	5.3		4.2	U	4.1	U	3.6	U
7421-36-3	Endrin aldehyde	3.7	U	4.1	U	3.9	U	4.2	U	4.1	U	3.6	U
5103-71-9	alpha-Chlordane	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
5103-74-2	gamma-Chlordane	1.9	U	2.1	U	2.	U	2.2	U	2.1	U	1.9	U
8001-35-2	Toxaphene	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U
12674-11-2	Aroclor-1016	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U
11104-28-2	Aroclor-1221	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U
11141-16-5	Aroclor-1232	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U
53469-21-9	Aroclor-1242	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U
12672-29-6	Aroclor-1248	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U
11097-69-1	Aroclor-1254	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U
11096-82-5	Aroclor-1260	37.	U	41.	U	39.	U	42.	U	41.	U	36.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1358 SVOA													
	SAMPLE ID ------->	060-S-HA01-01		060-S-HA01-02		060-S-HA02-01		060-S-HA02-02		060-S-HA03-01		060-S-HA03-02	
	ORIGINAL ID ----->	060SHA0101		060SHA0102		060SHA0201		060SHA0202		060SHA0301		060SHA0302	
	LAB SAMPLE ID --->	121073		121080		121074		121081		121075		121082	
	SAMPLE DATE ----->	03/30/95		03/31/95		03/30/95		03/31/95		03/30/95		03/31/95	
	DATE EXTRACTED -->	04/06/95		04/06/95		04/06/95		04/06/95		04/06/95		04/16/95	
	DATE ANALYZED --->	04/24/95		04/24/95		04/27/95		04/25/95		04/22/95		04/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
621-64-7	N-Nitroso-di-n-propylamine	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
67-72-1	Hexachloroethane	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
78-59-1	Isophorone	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
88-75-5	2-Nitrophenol	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
105-67-9	2,4-Dimethylphenol	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
111-91-1	bis(2-Chloroethoxy)methane	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
120-83-2	2,4-Dichlorophenol	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
120-82-1	1,2,4-Trichlorobenzene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
91-20-3	Naphthalene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
106-47-8	4-Chloroaniline	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
87-68-3	Hexachlorobutadiene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
59-50-7	4-Chloro-3-methylphenol	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
91-57-6	2-Methylnaphthalene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
77-47-4	Hexachlorocyclopentadiene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
88-06-2	2,4,6-Trichlorophenol	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
95-95-4	2,4,5-Trichlorophenol	9000.	U	5000.	U	4800.	U	5100.	U	5000.	U	890.	UJ
91-58-7	2-Chloronaphthalene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
88-74-4	2-Nitroaniline	9000.	U	5000.	U	4800.	U	5100.	U	5000.	U	890.	UJ
131-11-3	Dimethylphthalate	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
208-96-8	Acenaphthylene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
606-20-2	2,6-Dinitrotoluene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
99-09-2	3-Nitroaniline	9000.	U	5000.	U	4800.	U	5100.	U	5000.	U	890.	UJ
83-32-9	Acenaphthene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
51-28-5	2,4-Dinitrophenol	9000.	UJ	5000.	UJ	4800.	UJ	5100.	U	5000.	U	890.	UJ
100-02-7	4-Nitrophenol	9000.	UJ	5000.	UJ	4800.	UJ	5100.	UJ	5000.	U	890.	UJ
132-64-9	Dibenzofuran	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
121-14-2	2,4-Dinitrotoluene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
84-66-2	Diethylphthalate	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
7005-72-3	4-Chlorophenylphenylether	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
86-73-7	Fluorene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
100-01-6	4-Nitroaniline	9000.	U	5000.	U	4800.	U	5100.	U	5000.	U	890.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	9000.	U	5000.	U	4800.	UJ	5100.	U	5000.	UJ	890.	UJ
86-30-6	N-Nitrosodiphenylamine	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
101-55-3	4-Bromophenylphenylether	3700.	U	2100.	U	2000.	U	2100.	U	2100.	UJ	370.	UJ
118-74-1	Hexachlorobenzene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
87-86-5	Pentachlorophenol	9000.	U	5000.	U	4800.	U	5100.	U	5000.	U	890.	UJ
85-01-8	Phenanthrene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1358 SVOA													
	SAMPLE ID ------->	060-S-HA01-01		060-S-HA01-02		060-S-HA02-01		060-S-HA02-02		060-S-HA03-01		060-S-HA03-02	
	ORIGINAL ID ----->	060SHA0101		060SHA0102		060SHA0201		060SHA0202		060SHA0301		060SHA0302	
	LAB SAMPLE ID --->	121073		121080		121074		121081		121075		121082	
	SAMPLE DATE ----->	03/30/95		03/31/95		03/30/95		03/31/95		03/30/95		03/31/95	
	DATE EXTRACTED -->	04/06/95		04/06/95		04/06/95		04/06/95		04/06/95		04/16/95	
	DATE ANALYZED --->	04/24/95		04/24/95		04/27/95		04/25/95		04/22/95		04/25/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
120-12-7	Anthracene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
86-74-8	Carbazole	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
84-74-2	Di-n-butylphthalate	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
206-44-0	Fluoranthene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
129-00-0	Pyrene	410.	J	2100.	U	330.	J	2100.	U	2100.	UJ	370.	UJ
85-68-7	Butylbenzylphthalate	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
91-94-1	3,3'-Dichlorobenzidine	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
56-55-3	Benzo(a)anthracene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
218-01-9	Chrysene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
117-84-0	Di-n-octylphthalate	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
205-99-2	Benzo(b)fluoranthene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
207-08-9	Benzo(k)fluoranthene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
50-32-8	Benzo(a)pyrene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
53-70-3	Dibenzo(a,h)anthracene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
191-24-2	Benzo(g,h,i)perylene	3700.	U	2100.	U	260.	J	2100.	U	2100.	U	370.	UJ
108-95-2	Phenol	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
111-44-4	bis(2-Chloroethyl)ether	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
95-57-8	2-Chlorophenol	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
541-73-1	1,3-Dichlorobenzene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
106-46-7	1,4-Dichlorobenzene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
95-50-1	1,2-Dichlorobenzene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
95-48-7	2-Methylphenol (o-Cresol)	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	3700.	U	2100.	U	2000.	UJ	2100.	U	2100.	U	370.	UJ
106-44-5	4-Methylphenol (p-Cresol)	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ
98-95-3	Nitrobenzene	3700.	U	2100.	U	2000.	U	2100.	U	2100.	U	370.	UJ

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1358 TCLP-METAL						
SAMPLE ID ------->	060-S-HA01-01	060-S-HA01-02	060-S-HA02-01	060-S-HA02-02	060-S-HA03-01	060-S-HA03-02
ORIGINAL ID ----->	060SHA0101	060SHA0102	060SHA0201	060SHA0202	060SHA0301	060SHA0302
LAB SAMPLE ID --->	121488	121491	121489	121492	121490	121493
SAMPLE DATE ----->	03/30/95	03/31/95	03/30/95	03/31/95	03/30/95	03/31/95
DATE EXTRACTED -->	04/18/95	04/18/95	04/18/95	04/18/95	04/18/95	04/18/95
DATE ANALYZED --->	04/28/95	04/28/95	04/28/95	04/28/95	04/28/95	04/28/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A
CAS # Parameter						
PB Lead	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1358 TPH						
SAMPLE ID ------->	060-S-HA01-01	060-S-HA01-02	060-S-HA02-01	060-S-HA02-02	060-S-HA03-01	060-S-HA03-02
ORIGINAL ID ----->	060SHA0101	060SHA0102	060SHA0201	060SHA0202	060SHA0301	060SHA0302
LAB SAMPLE ID --->	121070	121077	121071	121078	121072	121079
SAMPLE DATE ----->	03/30/95	03/31/95	03/30/95	03/31/95	03/30/95	03/31/95
DATE EXTRACTED -->	04/11/95	04/11/95	04/11/95	04/11/95	04/11/95	04/11/95
DATE ANALYZED --->	04/12/95	04/12/95	04/12/95	04/12/95	04/12/95	04/12/95
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A	mg/Kg A
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	5600.	83. U	2000.	84. U	180.	85. U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1358 VOA	SAMPLE ID ------->	060-S-HA01-01		060-S-HA01-02		060-S-HA02-01		060-S-HA02-02		060-S-HA03-01		060-S-HA03-02	
	ORIGINAL ID ----->	060SHA0101		060SHA0102		060SHA0201		060SHA0202		060SHA0301		060SHA0302	
	LAB SAMPLE ID --->	121073		121080		121074		121081		121075		121082	
	SAMPLE DATE ----->	03/30/95		03/31/95		03/30/95		03/31/95		03/30/95		03/31/95	
	DATE ANALYZED --->	04/06/95		04/05/95		04/08/95		04/10/95		04/06/95		04/10/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter												
74-87-3	Chloromethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
74-83-9	Bromomethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
75-01-4	Vinyl chloride	11.	U	62.	U	12.	UJ	13.	U	12.	U	11.	U
75-00-3	Chloroethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
75-09-2	Methylene chloride	11.	U	62.	U	12.	U	13.	U	12.	U	2.	J
67-64-1	Acetone	10.	U	720.	J	12.	UJ	100.		10.	U	370.	DJ
75-15-0	Carbon disulfide	11.	UJ	62.	U	12.	U	13.	U	12.	UJ	11.	U
75-35-4	1,1-Dichloroethene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
75-34-3	1,1-Dichloroethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
540-59-0	1,2-Dichloroethene (total)	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
67-66-3	Chloroform	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
107-06-2	1,2-Dichloroethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
78-93-3	2-Butanone (MEK)	11.	U	62.	UJ	12.	UJ	13.	U	12.	U	17.	
71-55-6	1,1,1-Trichloroethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
56-23-5	Carbon tetrachloride	11.	U	62.	U	12.	UJ	13.	U	12.	U	11.	U
75-27-4	Bromodichloromethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
78-87-5	1,2-Dichloropropane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
10061-01-5	cis-1,3-Dichloropropene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
79-01-6	Trichloroethene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
124-48-1	Dibromochloromethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
79-00-5	1,1,2-Trichloroethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
71-43-2	Benzene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
10061-02-6	trans-1,3-Dichloropropene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
75-25-2	Bromoform	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	11.	U	62.	UJ	12.	UJ	13.	U	12.	U	11.	U
591-78-6	2-Hexanone	11.	U	62.	UJ	12.	UJ	13.	U	12.	U	11.	U
127-18-4	Tetrachloroethene	11.	U	62.	U	2.	J	13.	U	12.	U	11.	U
79-34-5	1,1,2,2-Tetrachloroethane	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
108-88-3	Toluene	10.	U	62.	U	5.	J	13.	U	12.	U	10.	U
108-90-7	Chlorobenzene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
100-41-4	Ethylbenzene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
100-42-5	Styrene	11.	U	62.	U	12.	U	13.	U	12.	U	11.	U
1330-20-7	Xylene (Total)	11.	U	62.	U	2.	J	13.	U	12.	U	11.	U

*** Validation Complete ***

VALIDATA

Chemical Services, Inc.

P. O. Box 930422, Norcross, Ga. 30093

DATA VALIDATION SUMMARY REPORT

COMPANY:	Ensafe/Allen & Hoshall
SITE NAME:	NAS Memphis
PROJECT NUMBER:	8500.024
CONTRACTED LAB:	National Environmental Testing, Inc.
QA/QC LEVEL:	Level III
EPA SOW/METHOD:	EPA 1990 SOW
VALIDATION GUIDELINES:	*USEPA Contract LaboratoryProgram National Functional Guidelines for Organic Data Review,* 1994; *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* 1994
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organics (VOA), Semivolatile Organics (SVOC), Total Metals and Cyanide (Me/CN), Total Petroleum Hydrocarbons (TPH)
SDG NUMBER:	1376

SAMPLES:

Client Sample #:	Lab Sample #:	Matrix	VOA	SVOC	Me/CN	TPH
005GMW04LS	122125	Water	X		X	X
005GMW05LS	122126	Water	X	X	X	X
005GMW06LS	122127	Water	X	X	X	X
005GMW08LS	122128	Water	X	X	X	X
005GMW09LS	122129	Water	X	X	X	X
005E041795	122123	Water	X	X	X	X
005F041795	122124	Water	X	X	X	X
005T041795	122130	Water	X			
005GMW05LSMD	122126MD	Water			X	
005GMW08LSMS	122128MS	Water			X	

F = FIELD BLANK, E = EQUIPMENT BLANK, T = TRIP BLANK, MS = MATRIX SPIKE, MD = MATRIX DUPLICATE

DATA REVIEWER(S): Amy L. Hogan, Marvin L. Smith

RELEASE SIGNATURE: Kevin C. Hannon

Data Qualifier Definitions:

J	-	The associated numerical value is an estimated quantity.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1376 Organics and Inorganics

SAMPLES: 005GMW04LS, 005GMW05LS, 005GMW05LSMD, 005GMW06LS, 005GMW08LS, 005GMW08LSMS, 005GMW09LS, 005F041795, 005E041795, 005T041795

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/28/95 at 10:38:

chloromethane	44.3%
vinyl chloride	29.4%

The results for these compounds in associated samples 005GMW04LS, 005GMW06LS and 005GMW09LS, which consisted entirely of non-detects, were flagged as estimated (UJ). The results for associated sample 005T041795 were not contained on the spreadsheet for this SDG, and data qualification is not required for trip blanks.

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 4/29/95 at 13:45:

chloromethane	37.9%
chloroethane	73.4%
carbon disulfide	27.3%

There were no positive results for these compounds in associated samples 005E041795 and 005F041795. The results for these field blank samples were not included on the spreadsheet for this SDG. No action was necessary.

IV.) Blanks:

Method Blanks:

Acetone was detected at 4.0 ug/L in water method blank VBLK042995K. All samples associated with this blank were field blanks, so no action was required.

Methylene chloride was detected at 1 ug/L in water method blank VBLK050195K. All positive results for this compound in associated samples 005GMW05LS and 005GMW08LS less than 10X the blank amount were flagged as undetected (U) with the detection limit being raised to the level of contamination in each sample.

Trip Blanks and Equipment Blanks:

There were no positive detections in trip blank 005T041795. No action was required.

Acetone was detected at 5.0 ug/L in equipment blank 005E041795 and at 4.0 ug/L in field blank 005F041795. There were no positive results for acetone in the associated samples. No action was required.

TIC's:

There were no TIC's reported in the method blanks for this SDG. No action was taken.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met, so no action was taken.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

No MS / MSD analysis was requested for this SDG. No action was required.

VII.) Field Duplicates:

There were no field duplicate samples associated with this SDG. No action was required.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All system performance criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for 005T041795, 005E041795 and 005F041795 were not in the spreadsheet for this SDG. All remaining laboratory data were acceptable with qualification.

SEMIVOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria for the method were met. No action was required.

II.) GC/MS Tuning:

All GC/MS Tuning criteria were met, so no action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviations (%RSD's) of the following compounds exceeded the 30% QC limit for the intial calibration run on 4/28/95:

hexachlorocyclopentadiene	35.2%
2,4-dinitrophenol	32.1%

There were no positive results for these compounds in the associated samples. No action was required.

Continuing Calibration:

The Percent Differences (%D's) of the following compounds exceeded the 25% QC limit for the continuing calibration run on 5/05/95 at 11:05:

2,2'-oxybis(1-chloropropane)	31.5%
n-nitroso-di-n-propylamine	32.3%
2-nitroaniline	29.5%

The results for these compounds in associated samples 005GMW05LS, 005GMW06LS, 005GMW08LS and 005GMW09LS, which consisted entirely of non-detects, were flagged as estimated (UJ). There were no positive results for these compounds in sample 005F041795, which was not listed on the spreadsheet for this SDG. No action was required.

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

Field Blanks:

There were no positive results for equipment blank 005E041795 No action was required.

Bis(2-ethylhexyl)phthalate was detected at 1.0 ug/L in field blank 005F041795 associated with this SDG. There were no positive results for this compound in the associated samples. No action was necessary.

V.) Surrogate Recoveries:

The Percent Recovery (%R) of terphenyl-d14 (21%) was below the 33-141% QC limits for sample 005GMW08LS. Since only one surrogate was below the QC limits, no action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

No MS / MSD Analysis was not requested for this SDG. No action was necessary.

VII.) Field Duplicates:

There were no field duplicate samples associated with this SDG. No action was necessary.

VIII.) Internal Standards Performance:

All Internal Standard Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was required.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

Results for naphthalene and 2-methylnaphthalene in sample 005MW08LS exceeded the linear calibration range. There was no reanalysis or dilution analyzed. The results for these compounds in this sample were flagged as estimated (J). All other CRQL criteria were met, so no further action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All System Performance criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for samples 005F041795 and 005E041795 were not on the spreadsheet for this SDG. Sample 005GMW04LS was not analyzed for this fraction as requested because the sample was received broken, as indicated by the laboratory. All other laboratory data were acceptable with qualification.

TOTAL METALS and CYANIDE

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) Calibration:

All Calibration criteria were met, so no action was necessary.

III.) Blanks:

The following blank results represent the highest detections associated with the samples and were used for data qualification:

Blank Type/ID#	Analyte	Max. Conc.	Action Level ug/L
PB	barium	6.19 ug/L	30.9
PB	copper	8.78 ug/L	43.9
CCB1	selenium	2.10 ug/L	10.5

PB = Preparation Blank (Water), CCB = Continuing Calibration Blank

All results greater than the IDL but less than 5X the blank amount (Action Level, ug/L for water samples) for which the contaminated blank was an associated calibration or praparation blank were flagged as undetected (U).

The following analytes had negative results with absolute values greater than the IDL's:

Blank Type/ID#	Analyte	Neg. Conc.	5X Conc. (ug/L)
CCB1	cadmium	-3.30 ug/L	16.5
CCB1	cobalt	-6.30 ug/L	31.5
CCB1	silver	-5.10 ug/L	25.5
CCB1	zinc	-13.7 ug/L	68.5

CCB = Continuing Calibration Blank

All associated positive sample results less than 5X the absolute value of the negative blank result were flagged as estimated (J) and all non-detects were flagged as estimated (UJ).

IV.) ICP Interference Check Sample Results:

All Interference Check Sample criteria were met. No action was required.

V.) ICP Serial Dilution Analysis:

All Serial Dilution criteria were met, so no action was necessary.

VI.) Laboratory Control Samples (LCS):

All Laboratory Control Sample criteria were met. No action was required.

VII.) Duplicate Sample Analysis:

All Duplicate Sample criteria were met. No action was required.

VIII.) Matrix Spike Recoveries:

The Percent Recoveries (%R's) of the following analytes were below the 75-125% QC limits for sample 005GMW08LSMS:

cadmium	73.9%
silver	49.8%
thallium	39.3%

The results for silver and thallium in all associated samples, which consisted entirely of non-detects, were flagged as estimated (UJ). The positive and non-detect results for cadmium in the associated samples were flagged as estimated (J) and (UJ).

IX.) Field Duplicates:

There were no field duplicate samples for this SDG. No action was required.

X.) Furnace Atomic Absorption QC:

All GFAA criteria were met. No action was necessary.

XI.) Sample Result, Calculation/Transcription Verification:

All criteria were met, so no action was taken.

XII.) Quarterly Verification of Instrumental Parameters:

All criteria met, so no action was taken.

XIII.) Overall Assessment of Data/General:

All laboratory data were acceptable with qualification.

TOTAL PETROLEUM HYDROCARBONS

I.) Holding Times:

All samples were extracted and analyzed within the required holding times. No action was required.

II.) Instrument Performance:

All Instrument Performance criteria were met. No action was necessary.

III.) Calibration:

All Calibration criteria were met. No action was necessary.

IV.) Blanks:

Method Blanks:

There were no positive detections in the method blanks, so no data qualification was necessary.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No action was required.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

No MS / MSD Alnayses were requested for this SDG. No action was necessary.

VII.) TCL Compound Identification:

All Compound Identification criteria were met. No action was required.

VIII.) Field Duplicates:

There were no field duplicates associated with this SDG. No action was taken.

IX.) Overall Assessment of Data/General:

All data were acceptable without qualification.

E/A&H VALIDATION ADDENDUM

Validation Subcontractor:	Validata Chemical Services, Inc.
Site Name:	NAS Memphis, Millington, Tennessee
CTO and Subtask No.:	0094-04730
Laboratory:	NET Atlantic, Inc.
Sample Delivery Group:	1376
Matrix:	Water
Analysis:	Metals
Samples:	005GMW04LS, 005GMW05LS, 005GMW08LS, 005GMW09LS
E/A&H Project Chemist:	Charlene M. Thompson CMT

Graphite furnace AA analytical spike recoveries did not meet the control limits of 85-115% (but did not require MSA analysis) for the following analytes:

Selenium: 005GMW04LS (62.5%), 005GMW05LS (75.0%), 005GMW09LS (83.5%)

Thallium: 005GMW08LS (47.2%), 005GMW05LS (60.8%), 005GMW09LS (76.5%)

When the percent recovery was less than 85%, the results were qualified as estimated (J) for positive results and (UJ) for undetected results.

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1376 METAL	SAMPLE ID ------->	005-G-MW04-LS		005-G-MW05-LS		005-G-MW06-LS		005-G-MW08-LS		005-G-MW09-LS	
	ORIGINAL ID ----->	005GMW04LS		005GMW05LS		005GMW06LS		005GMW08LS		005GMW09LS	
	LAB SAMPLE ID --->	1-122125S		1-122126S		1-122127S		1-122128S		1-122129S	
	SAMPLE DATE ----->	04/17/95		04/17/95		04/17/95		04/17/95		04/17/95	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter										
SB	Antimony	50.	U	64.8		50.	U	50.	U	50.	U
AS	Arsenic	11.2		14.2		8.6	J	159.		2.7	J
BA	Barium	441.		1400.		138.	J	564.		407.	
BE	Beryllium	2.1	J	3.7	J	1.	U	1.	U	1.4	J
CD	Cadmium	7.9	J	8.3	J	3.	UJ	8.5	J	3.	UJ
CR	Chromium	31.		45.4		5.	U	5.	U	5.	U
CO	Cobalt	11.7	J	21.3	J	3.9	J	7.8	J	4.2	J
CU	Copper	46.7		71.5		6.6	U	9.6	U	18.2	U
PB	Lead	17.3		22.6		2.	J	4.5		4.6	
HG	Mercury	0.2	U	0.63		0.2	U	0.2	U	0.23	
NI	Nickel	39.8	J	69.5		25.	U	56.4		27.8	J
SE	Selenium	2.1	UJ	2.	UJ	2.	U	2.	U	2.	UJ
AG	Silver	3.	UJ	3.	UJ	3.	UJ	3.	UJ	3.	UJ
TL	Thallium	10.	UJ	2.	UJ	2.	UJ	2.	UJ	2.	UJ
V	Vanadium	43.2	J	74.4		4.	U	4.	U	4.8	J
ZN	Zinc	132.		233.		6.	U	26.7		61.5	
SN	Tin	15.	U	15.	U	15.	U	15.	U	15.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1376 METAL-CN						
SAMPLE ID ------->	005-G-MW04-LS	005-G-MW05-LS	005-G-MW06-LS	005-G-MW08-LS	005-G-MW09-LS	
ORIGINAL ID ----->	005GMW04LS	005GMW05LS	005GMW06LS	005GMW08LS	005GMW09LS	
LAB SAMPLE ID --->	122118	122119	122120	122121	122122	
SAMPLE DATE ----->	04/17/95	04/17/95	04/17/95	04/17/95	04/17/95	
DATE EXTRACTED -->	04/20/95	04/20/95	04/20/95	04/20/95	04/20/95	
DATE ANALYZED --->	04/23/95	04/23/95	04/23/95	04/23/95	04/23/95	
MATRIX ---------->	Water	Water	Water	Water	Water	
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	
CAS # Parameter						
CN Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1376 SVOA													
	SAMPLE ID ------->	005-G-MW05-LS		005-G-MW06-LS		005-G-MW08-LS		005-G-MW09-LS			
	ORIGINAL ID ----->	005GMW05LS		005GMW06LS		005GMW08LS		005GMW09LS			
	LAB SAMPLE ID --->	122126		122127		122128		122129			
	SAMPLE DATE ----->	04/17/95		04/17/95		04/17/95		04/17/95			
	DATE EXTRACTED -->	04/24/95		04/24/95		04/24/95		04/24/95			
	DATE ANALYZED --->	05/05/95		05/05/95		05/05/95		05/05/95			
	MATRIX ---------->	Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter										
621-64-7	N-Nitroso-di-n-propylamine	10.	UJ	10.	UJ	10.	UJ	10.	UJ		
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U		
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U		
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U		
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U		
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U		
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U		
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U		
91-20-3	Naphthalene	10.	U	10.	U	120.	J	10.	U		
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U		
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U		
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U		
91-57-6	2-Methylnaphthalene	10.	U	10.	U	100.	J	10.	U		
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U		
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U		
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	U		
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U		
88-74-4	2-Nitroaniline	25.	UJ	25.	UJ	25.	UJ	25.	UJ		
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U		
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U		
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U		
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U		
83-32-9	Acenaphthene	10.	U	10.	U	3.	J	10.	U		
51-28-5	2,4-Dinitrophenol	25.	U	25.	U	25.	U	25.	U		
100-02-7	4-Nitrophenol	25.	U	25.	U	25.	U	25.	U		
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U		
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U		
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U		
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U		
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U		
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U		
534-52-1	4,6-Dinitro-2-methylphenol	25.	U	25.	U	25.	U	25.	U		
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U		
101-55-3	4-Bromophenylphenylether	10.	U	10.	U	10.	U	10.	U		
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U		
87-86-5	Pentachlorophenol	25.	U	25.	U	25.	U	25.	U		
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U		

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1376 SVOA													
	SAMPLE ID ------->	005-G-MW05-LS		005-G-MW06-LS		005-G-MW08-LS		005-G-MW09-LS					
	ORIGINAL ID ----->	005GMW05LS		005GMW06LS		005GMW08LS		005GMW09LS					
	LAB SAMPLE ID --->	122126		122127		122128		122129					
	SAMPLE DATE ----->	04/17/95		04/17/95		04/17/95		04/17/95					
	DATE EXTRACTED -->	04/24/95		04/24/95		04/24/95		04/24/95					
	DATE ANALYZED --->	05/05/95		05/05/95		05/05/95		05/05/95					
	MATRIX ---------->	Water		Water		Water		Water					
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A				
CAS #	Parameter												
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U				
86-74-8	Carbazole	10.	U	10.	U	10.	U	10.	U				
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U				
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U				
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U				
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U				
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U				
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U				
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U				
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U				
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U				
53-70-3	Dibenzo(a,h)anthracene	10.	U	10.	U	10.	U	10.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U				
108-95-2	Phenol	10.	U	10.	U	98.	J	10.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U				
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U				
95-50-1	1,2-Dichlorobenzene	6.	J	10.	U	10.	U	10.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	UJ	10.	UJ	10.	UJ	10.	UJ				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U				
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1376 TPH						
SAMPLE ID ------->	005-G-MW04-LS	005-G-MW05-LS	005-G-MW06-LS	005-G-MW08-LS	005-G-MW09-LS	
ORIGINAL ID ----->	005GMW04LS	005GMW05LS	005GMW06LS	005GMW08LS	005GMW09LS	
LAB SAMPLE ID --->	122118	122119	122120	122121	122122	
SAMPLE DATE ----->	04/17/95	04/17/95	04/17/95	04/17/95	04/17/95	
DATE EXTRACTED -->	04/26/95	04/26/95	04/26/95	04/26/95	04/26/95	
DATE ANALYZED --->	04/26/95	04/26/95	04/26/95	04/26/95	04/26/95	
MATRIX ---------->	Water	Water	Water	Water	Water	
UNITS ---------->	mg/L A	mg/L A	mg/L A	mg/L A	mg/L A	
CAS # Parameter						
9999900-02-4 Petroleum Hydrocarbons, TPH	2. U	2. U	2. U	2. U	2. U	

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1376 VOA													
	SAMPLE ID ------->	005-G-MW04-LS		005-G-MW05-LS		005-G-MW06-LS		005-G-MW08-LS		005-G-MW09-LS			
	ORIGINAL ID ----->	005GMW04LS		005GMW05LS		005GMW06LS		005GMW08LS		005GMW09LS			
	LAB SAMPLE ID --->	122125		122126		122127		122128		122129			
	SAMPLE DATE ----->	04/17/95		04/17/95		04/17/95		04/17/95		04/17/95			
	DATE ANALYZED --->	04/28/95		05/01/95		04/28/95		05/01/95		04/28/95			
	MATRIX ---------->	Water		Water		Water		Water		Water			
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A		
CAS #	Parameter												
74-87-3	Chloromethane	10.	UJ	10.	U	10.	UJ	250.	U	10.	UJ		
74-83-9	Bromomethane	10.	U	10.	U	10.	U	250.	U	10.	U		
75-01-4	Vinyl chloride	10.	UJ	10.	U	10.	UJ	250.	U	10.	UJ		
75-00-3	Chloroethane	10.	U	10.	U	10.	U	250.	U	10.	U		
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	31.	J	10.	U		
67-64-1	Acetone	10.	U	10.	U	10.	U	250.	U	10.	U		
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	250.	U	10.	U		
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	250.	U	10.	U		
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	250.	U	10.	U		
540-59-0	1,2-Dichloroethene (total)	10.	U	8.	J	10.	U	250.	U	10.	U		
67-66-3	Chloroform	10.	U	10.	U	10.	U	250.	U	10.	U		
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	250.	U	10.	U		
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	250.	U	10.	U		
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	250.	U	10.	U		
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	250.	U	10.	U		
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	250.	U	10.	U		
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	250.	U	10.	U		
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	250.	U	10.	U		
79-01-6	Trichloroethene	10.	U	2.	J	10.	U	250.	U	10.	U		
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	250.	U	10.	U		
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	250.	U	10.	U		
71-43-2	Benzene	10.	U	10.	U	10.	U	3900.		5.	J		
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	250.	U	10.	U		
75-25-2	Bromoform	10.	U	10.	U	10.	U	250.	U	10.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	250.	U	10.	U		
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	250.	U	10.	U		
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	250.	U	10.	U		
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	250.	U	10.	U		
108-88-3	Toluene	10.	U	10.	U	10.	U	250.	U	10.	U		
108-90-7	Chlorobenzene	10.	U	2.	J	10.	U	250.	U	10.	U		
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	30.	J	10.	U		
100-42-5	Styrene	10.	U	10.	U	10.	U	250.	U	10.	U		
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	250.	U	10.	U		

*** Validation Complete ***

VALIDATA

Chemical Services, Inc.

P. O. Box 930422, Norcross, Ga. 30093

DATA VALIDATION SUMMARY REPORT

COMPANY:	Ensafe/Allen & Hoshall
SITE NAME:	NAS Memphis
PROJECT NUMBER:	8500.024
CONTRACTED LAB:	National Environmental Testing, Inc.
QA/QC LEVEL:	Level IV
EPA SOW/METHOD:	EPA 1990 SOW
VALIDATION GUIDELINES:	*USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* 1994
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Volatile Organics (VOA)
SDG NUMBERS:	1394, 1397, 1399

SAMPLES:

SDG NUMBER: 1394

Client Sample #:	Lab Sample #:	Matrix	VOA
007GMW04LF	122834	Water	X
007GMW04UC	122835	Water	X
007GMW04UF	122836	Water	X
007GMW05LF	122837	Water	X
007GMW05LS	122838	Water	X
007GMW05UC	122839	Water	X
007HMW05UC	122840	Water	X
007GMW05UF	122841	Water	X
006T050395	122842	Water	X
007GMW07LF	122843	Water	X
007GMW07LS	122844	Water	X
007GMW07UC	122845	Water	X
007GMW07UF	122846	Water	X
007GMW08LF	122847	Water	X
007GMW08UC	122848	Water	X

Client Sample #:	Lab Sample #:	Matrix	VOA
007GMW08UF	122849	Water	X
007GMW09LF	122850	Water	X
007GMW09LS	122851	Water	X
007GMW09UC	122852	Water	X
007GMW09UF	122853	Water	X
007T050295	122854	Water	X
007GMW05UFMS	122841MS	Water	X
007GMW05UFMSD	122841MSD	Water	X
007GMW08LFMS	122850MS	Water	X
007GMW08LFMSD	122850MSD	Water	X

H = FIELD DUPLICATE, T = TRIP BLANK, MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE

SDG NUMBER: 1397

Client Sample #:	Lab Sample #:	Matrix	VOA
001E050495	122936	Water	X
002E050495	122937	Water	X
007GMW01LF	122938	Water	X
007GMW01LS	122939	Water	X
007GMW01UC	122940	Water	X
007GMW01UF	122941	Water	X
007GMW02UC	122942	Water	X
007GMW03LS	122943	Water	X
007GMW69LF	122944	Water	X
BG5GMW05LF	122945	Water	X
BGHMW05LF	122946	Water	X
BG5GMW05LS	122947	Water	X
BG5GMW05UF	122948	Water	X
007GMW01UFMS	122941MS	Water	X
007GMW01UFMSD	122941MSD	Water	X
FIELD BLANK	122949	Water	X
TRIP BLANK	122950	Water	X

E = EQUIPMENT BLANK, H = FIELD DUPLICATE, MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE

SDG NUMBER: 1399

Client Sample #:	Lab Sample #:	Matrix	VOA
007GMW03UC	122996	Water	X
0007GMW03UF	122997	Water	X
007GMW08GM	122998	Water	X

Client Sample #:	Lab Sample #:	Matrix	VOA
007GMW02GM	122999	Water	X
007GMW03LF	123000	Water	X
007GMW06LF	123001	Water	X
007GMW06UF	123002	Water	X
007GMW06UC	123003	Water	X
007GMW06LS	123004	Water	X
007HMW06UC	123005	Water	X
007T050595	123006	Water	X

H = FIELD DUPLICATE, T =TRIP BLANK

DATA REVIEWER(S): Amy L. Hogan, Marvin L. Smith

RELEASE SIGNATURE: Kevin C. Harmon

Data Qualifier Definitions:

J	-	The associated numerical value is an estimated quantity.
R	-	The data are unusable (the compound/analyte may or may not be present). Resampling and reanalysis are necessary for verification.
U	-	The compound/analyte was analyzed for, but not detected. The associated numerical value is the sample quantitation limit.
UJ	-	The compound/analyte was analyzed for, but not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1394 Organics

SAMPLES: 007GMW04LF, 007GMW04UC, 007GMW04UF, 007GMW05LF, 007GMW05LS, 007GMW05UC, 007HMW05UC, 007GMW05UF, 006T050395, 007GMW07LF, 007GMW07LS, 007GMW07UC, 007GMW07UF, 007GMW08LF, 007GMW08UC, 007GMW08UF, 007GMW09LF, 007GMW09LS, 007GMW09UC, 007GMM09UF, 007T050295, 007GMW05UFMS, 007GMW05UFMSD, 007GMW08LFMS, 007GMW08LFMSD

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

The Percent Relative Standard Deviation (%RSD) for acetone (67.5%) exceeded the 30% QC limit for the initial calibration run on 5/04/95. The positive results for this compound in associated samples 007GMW07LF, 007GMW07LS, 007GMW07UF, 007GMW08LF, 007GMW08UC, 007GMW08UF, 007GMW09LF, 007GMW09UC, 007GMW09UF, 007GMW04UC, 007GMW04UF, 007GMW05LF, 007GMW05UC and 007GMW07UC were flagged as estimated (J). The result for this compound in associated sample 007T050295 was a non-detect. No further action was required.

Continuing Calibration:

The Percent Difference (%D) of acetone (55.5%) exceeded the 25% QC limit for the continuing calibration run on 5/06/95 at 09:05. The non-detect results for this compound in associated samples 007GMW07LF, 007GMW07LS, 007GMW07UF, 007GMW08LF, 007GMW08UC, 007GMW08UF, 007GMW09LF, 007GMW09UC and 007GMW09UF were flagged as estimated (UJ). The positive results for this compound in the associated samples were previously flagged based on the initial calibration. The results for associated blank 007T050295 were not present on the spreadsheet for this SDG. No further action was necessary.

The Percent Difference (%D) of acetone (52.4%) exceeded the 25% QC limit for the continuing calibration run on 5/07/95 at 07:13. The non-detect results for this compound in associated samples 007GMW04UC, 007GMW04UF, 007GMW05LF, 007GMW05UC and 007GMW07UC were flagged as estimated (UJ). The positive results for this compound in the associated samples were previously flagged based on the initial calibration.

IV.) Blanks:

Method Blanks:

Acetone was detected at 10.0 ug/L in water method blank VBLK051295K. There were no positive results for this compound in associated samples 007GMW04LF and 007GMW05LS. No action was required.

Trip Blanks and Equipment Blanks:

Methylene chloride was detected at 2.0 ug/L in trip blank 006T050395. All positive results for this compound in associated samples 007GMW04LF, 007GMW04UC, 007GMW04UF, 007GMW05LF, 007GMW05LS, 007GMW05UC, 007HMW05UC and 007GMW05UF less than 10X the blank amount were flagged as undetected (U) with the detection limit being raised to the level of contamination in each sample.

There were no positive detections in trip blank 007T050295. No further action was required.

TIC's:

There were no TIC's reported in the method blanks for this SDG.

V.) Surrogate Recoveries:

The Percent Recovery (%R) of bromofluorobenzene (80%) in sample 007GMW05UFMS was below the 86-115% QC limits. Since the sample was a matrix spike and all other QC criteria were met, no action was taken.

VI.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

All MS / MSD criteria were met. No action was required.

VII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate samples 007GMW05UC and 007HMW05UC. No action was required.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for 006T050395 and 007T050295 were not in the spreadsheet for this SDG. All laboratory data were acceptable with qualification.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1397 Organics

SAMPLES: 001E050495, 002E050495, 007GMW01LF, 007GMW01LS, 007GMW01UC, 007GMW01UF, 007GMW02UC, 007GMW03LS, 007GMW69LF, BG5GMW05LF, BG5HMW05LF, BG5GMW05LS, BG5GMW05UF, FIELD BLANK, TRIP BLANK, 007GMW01UFMS, 007GMWO1UFMSD

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Difference (%D) of chloromethane (30.1%) exceeded the 25% QC limit for the continuing calibration run on 5/13/95 at 10:20. The results for this compound in associated samples BG5GMW05LF, BG5HMW05LF, BG5GMW05UF, 007GMW01UF, 007GMW02UC, 007GMW03LS and 007GMW69LF, which consisted entirely of non-detects, were flagged as estimated (UJ).

The Percent Difference (%D) of chloromethane (25.6%) exceeded the 25% QC limit for the continuing calibration run on 5/15/95 at 10:48. The results for the associated blanks 002E050495 and TRIP BLANK were not on the spreadsheet for this SDG. No action was taken.

IV.) Blanks:

Method Blanks:

Acetone was detected at 10.0 ug/L in water method blank VBLK051295K. There were no positive results for this compound in associated samples 007GMW01LS and 007GMW01LF. No action was required.

Trip Blanks and Equipment Blanks:

Methylene chloride was detected at 1.0 ug/L in the trip blank. There were no positive results for this compound in the associated samples. No action was necessary.

Acetone and methylene chloride were detected at 190 ug/L and 1.0 ug/L, respectively, in equipment blank 001E050495. All positive results for these compounds in the samples in this SDG less than 10X the blank amounts were flagged as undetected (U) with the detection limit being raised to the level of contamination in each sample.

There were no positive detections in blanks 002E050495 and FIELD BLANK. No further action was required.

TIC's:

There were no TIC's reported in the method blanks for this SDG.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met, so no action was taken.

VI.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

All MS / MSD criteria were met. No action was required.

VII.) Field Duplicates:

The Relative Percent Difference (RPD) for tetrachloroethene (3.6%) was within the 60% QC limit for soil field duplicate samples BG5GMW05LF and BG5HMW05LF. No action was required.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for 001E050495, 002E050495, FIELD BLANK and TRIP BLANK were not in the spreadsheet for this SDG. All remaining laboratory data were acceptable with qualification.

DATA QUALIFICATION SUMMARY

NET, Inc. - 1399 Organics

SAMPLES: 007GMW02GM, 007GMW03LF, 007GMW03UC, 007GMW03UF, 007GMW06LF, 007GMW06LS, 007GMW06UC, 007HMW06UC, 007GMW06UF, 007GMW08GM, 007T050595

VOLATILE ORGANICS

I.) Holding Times:

All Holding Time criteria were met. No action was required.

II.) GC/MS Tuning:

All Tuning criteria were met. No action was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No action was required.

Continuing Calibration:

The Percent Difference (%D) of chloromethane (25.6%) exceeded the 25% QC limit for the continuing calibration run on 5/15/95 at 10:48. The non-detect result for this compound in associated sample 007GMW06UF, was flagged as estimated (UJ).

IV.) Blanks:

Method Blanks:

All Method Blank criteria were met. No action was required.

Trip Blanks and Equipment Blanks:

There were no positive detections in trip blank 007T050595 for this SDG. No action was required.

TIC's:

There were no TIC's reported in the method blanks for this SDG. no action was required.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met, so no action was taken.

VI.) Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No MS / MSD analysis was performed for this SDG. No action was required.

VII.) Field Duplicates:

There were no calculable Relative Percent Differences (RPD's) for field duplicate samples 007GMW06UC and 007HMW06UC. No action was required.

VIII.) Internal Standards Performance:

All Internal Standards Performance criteria were met. No action was required.

IX.) TCL Compound Identification:

All TCL criteria were met, so no action was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL's):

All CRQL criteria were met. No action was required.

XI.) Tentatively Identified Compounds (TIC's):

All TIC criteria were met, so no action was taken.

XII.) System Performance:

All criteria were met, so no action was necessary.

XIII.) Overall Assessment of Data/General:

The results for trip blank 007T050595 were not on the spreadsheet for this SDG. All remaining laboratory data were acceptable with qualification.

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1394 VOA	SAMPLE ID ------->	007-G-MW04-LF		007-G-MW04-UC		007-G-MW04-UF		007-G-MW05-LF		007-G-MW05-LS		007-G-MW05-UC	
	ORIGINAL ID ----->	007GMW04LF		007GMW04UC		007GMW04UF		007GMW05LF		007GMW05LS		007GMW05UC	
	LAB SAMPLE ID --->	122834		122835		122836		122837		122838		122839	
	SAMPLE DATE ----->	05/03/95		05/03/95		05/03/95		05/03/95		05/03/95		05/03/95	
	DATE ANALYZED --->	05/12/95		05/07/95		05/07/95		05/07/95		05/12/95		05/07/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	50.	U	10.	J	18.	J	11.	J	10.	U	10.	UJ
75-15-0	Carbon disulfide	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	50.	U	10.	U	10.	U	5.	J	10.	U	10.	U
107-06-2	1,2-Dichloroethane	50.	U	10.	U	10.	U	4.	J	10.	U	10.	U
78-93-3	2-Butanone (MEK)	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	9.	J	10.	U	10.	U	8.	J	10.	U	10.	U
75-27-4	Bromodichloromethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	390.		10.	U	1.	J	28.		10.	U	10.	U
124-48-1	Dibromochloromethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	26.	J	10.	U	10.	U	1.	J	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	50.	U	10.	U	10.	U	10.	U	1.	J	10.	U
100-42-5	Styrene	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	50.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1394 VOA													
	SAMPLE ID ------->	007-H-MW05-UC		007-G-MW05-UF		007-G-MW07-LF		007-G-MW07-LS		007-G-MW07-UC		007-G-MW07-UF	
	ORIGINAL ID ----->	007HMW05UC		007GMW05UF		007GMW07LF		007GMW07LS		007GMW07UC		007GMW07UF	
	LAB SAMPLE ID --->	122840		122841		122843		122844		122845		122846	
	SAMPLE DATE ----->	05/03/95		05/03/95		05/02/95		05/02/95		05/02/95		05/02/95	
	DATE ANALYZED --->	05/11/95		05/11/95		05/06/95		05/06/95		05/07/95		05/06/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	2.	J
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	6.	J	98.		10.	UJ	40.	J	21.	J	25.	J
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	1.	J	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	6.	J	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	3.	J	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1394 VOA	SAMPLE ID ------->	007-G-MW08-LF		007-G-MW08-UC		007-G-MW08-UF		007-G-MW09-LF		007-G-MW09-LS		007-G-MW09-UC	
	ORIGINAL ID ----->	007GMW08LF		007GMW08UC		007GMW08UF		007GMW09LF		007GMW09LS		007GMW09UC	
	LAB SAMPLE ID --->	122847		122848		122849		122850		122851		122852	
	SAMPLE DATE ----->	05/02/95		05/01/95		05/02/95		05/02/95		05/02/95		05/02/95	
	DATE ANALYZED --->	05/06/95		05/06/95		05/06/95		05/06/95		05/11/95		05/06/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	UJ	10.	UJ	10.	UJ	10.	UJ	14.		10.	UJ
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	6.	J	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	4.	J	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	1.	J	10.	U	10.	U	10.		10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	2.	J	3.	J	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	3.	J	2.	J	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	8.	J	10.	U	1.	J	4.	J	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	6.	J	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1394	SAMPLE ID ------->	007-G-MW09-UF					
VOA	ORIGINAL ID ----->	007GMW09UF					
	LAB SAMPLE ID --->	122853					
	SAMPLE DATE ----->	05/02/95					
	DATE ANALYZED --->	05/06/95					
	MATRIX ---------->	Water					
	UNITS ---------->	UG/L A					
CAS #	Parameter						
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.	UJ				
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 (MEK)	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 (MIBK)	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				

*** Validation Complete ***

NAS MEMPHIS

NAS MEMPHIS, RFI, ASSEMBLY A

Primary Samples

1397 VOA	SAMPLE ID ------->	007-G-MW01-LF		007-G-MW01-LS		007-G-MW01-UC		007-G-MW01-UF		007-G-MW02-UC		007-G-MW03-LS	
	ORIGINAL ID ----->	007GMW01LF		007GMW01LS		007GMW01UC		007GMW01UF		007GMW02UC		007GMW03LS	
	LAB SAMPLE ID --->	122938		122939		122940		122941		122942		122943	
	SAMPLE DATE ----->	05/04/95		05/04/95		05/04/95		05/04/95		05/04/95		05/04/95	
	DATE ANALYZED --->	05/12/95		05/12/95		05/14/95		05/13/95		05/13/95		05/13/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	UJ	10.	UJ	10.	UJ
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	4.	J	4.	J	10.	U	4.	J	10.	U	10.	U
75-34-3	1,1-Dichloroethane	3.	J	79.		10.	U	26.		10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	2.	J	34.		10.	U	6.	J	10.	U	10.	U
67-66-3	Chloroform	2.	J	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	4.	J	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.		10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	2.	J	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	8.	J	19.		10.	U	11.		10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	8.	J	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	2.	J	10.	U	9.	J	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1397 VOA												
	SAMPLE ID ------->	007-G-MW69-LF		BG5-G-MW05-LF		BG5-H-MW05-LF		BG5-G-MW05-LS		BG5-G-MW05-UF		
	ORIGINAL ID ----->	007GMW69LF		BG5GMW05LF		BG5HMW05LF		BG5GMW05LS		BG5GMW05UF		
	LAB SAMPLE ID --->	122944		122945		122946		122947		122948		
	SAMPLE DATE ----->	05/04/95		05/04/95		05/04/95		05/04/95		05/04/95		
	DATE ANALYZED --->	05/13/95		05/13/95		05/13/95		05/14/95		05/13/95		
	MATRIX ---------->	Water		Water		Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter											
74-87-3	Chloromethane	10.	UJ	10.	UJ	10.	UJ	10.	U	10.	UJ	
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	
67-64-1	Acetone	10.	U	10.	U	10.	U	10.	U	10.	U	
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	
75-35-4	1,1-Dichloroethene	3.	J	10.	U	10.	U	10.	U	10.	U	
75-34-3	1,1-Dichloroethane	2.	J	10.	U	10.	U	10.	U	10.	U	
540-59-0	1,2-Dichloroethene (total)	2.	J	10.	U	10.	U	10.	U	10.	U	
67-66-3	Chloroform	2.	J	10.	U	10.	U	10.	U	10.	U	
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
56-23-5	Carbon tetrachloride	11.		10.	U	10.	U	10.	U	10.	U	
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	
79-01-6	Trichloroethene	9.	J	10.	U	10.	U	10.	U	10.	U	
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	
127-18-4	Tetrachloroethene	10.	U	27.		28.		10.	U	19.		
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	

*** Validation Complete ***

NAS MEMPHIS
NAS MEMPHIS, RFI, ASSEMBLY A
Primary Samples

1399 VOA	SAMPLE ID ------->	007-G-MW02-GM		007-G-MW03-LF		007-G-MW03-UC		007-G-MW03-UF		007-G-MW06-LF		007-G-MW06-LS	
	ORIGINAL ID ----->	007GMW02GM		007GMW03LF		007GMW03UC		007GMW03UF		007GMW06LF		007GMW06LS	
	LAB SAMPLE ID --->	122999		123000		122996		122997		123001		123004	
	SAMPLE DATE ----->	05/05/95		05/05/95		05/05/95		05/05/95		05/05/95		05/05/95	
	DATE ANALYZED --->	05/14/95		05/14/95		05/14/95		05/14/95		05/14/95		05/14/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-64-1	Acetone	10.	U	10.	U	16.		39.		5.	J	10.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	3.	J	10.	U	10.	U
75-35-4	1,1-Dichloroethene	1.	J	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	8.	J	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	16.		10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	7.	J	73.		10.	U	10.	U	2.	J	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	2.	J	10.	U	10.	U	1.	J	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (Total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

NAS MEMPHIS

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Primary Samples

1399 VOA													
	SAMPLE ID ------->	007-G-MW06-UC		007-H-MW06-UC		007-G-MW06-UF		007-G-MW08-GM					
	ORIGINAL ID ----->	007GMW06UC		007HMW06UC		007GMW06UF		007GMW08GM					
	LAB SAMPLE ID --->	123003		123005		123002		122998					
	SAMPLE DATE ----->	05/05/95		05/05/95		05/05/95		05/05/95					
	DATE ANALYZED --->	05/14/95		05/14/95		05/15/95		05/14/95					
	MATRIX ---------->	Water		Water		Water		Water					
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A				
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	10.	U	20.	UJ	10.	U				
74-83-9	Bromomethane	10.	U	10.	U	20.	U	10.	U				
75-01-4	Vinyl chloride	10.	U	10.	U	20.	U	10.	U				
75-00-3	Chloroethane	10.	U	10.	U	20.	U	10.	U				
75-09-2	Methylene chloride	10.	U	10.	U	20.	U	10.	U				
67-64-1	Acetone	10.	U	10.	U	320.		10.	U				
75-15-0	Carbon disulfide	10.	U	10.	U	20.	U	10.	U				
75-35-4	1,1-Dichloroethene	10.	U	10.	U	20.	U	10.	U				
75-34-3	1,1-Dichloroethane	10.	U	10.	U	20.	U	10.	U				
540-59-0	1,2-Dichloroethene (total)	10.	U	10.	U	20.	U	10.	U				
67-66-3	Chloroform	10.	U	10.	U	20.	U	10.	U				
107-06-2	1,2-Dichloroethane	10.	U	10.	U	20.	U	10.	U				
78-93-3	2-Butanone (MEK)	10.	U	10.	U	20.	U	10.	U				
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	20.	U	10.	U				
56-23-5	Carbon tetrachloride	10.	U	10.	U	20.	U	10.	U				
75-27-4	Bromodichloromethane	10.	U	10.	U	20.	U	10.	U				
78-87-5	1,2-Dichloropropane	10.	U	10.	U	20.	U	10.	U				
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	20.	U	10.	U				
79-01-6	Trichloroethene	10.	U	10.	U	20.	U	10.	U				
124-48-1	Dibromochloromethane	10.	U	10.	U	20.	U	10.	U				
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	20.	U	10.	U				
71-43-2	Benzene	10.	U	10.	U	20.	U	10.	U				
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	20.	U	10.	U				
75-25-2	Bromoform	10.	U	10.	U	20.	U	10.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	20.	U	10.	U				
591-78-6	2-Hexanone	10.	U	10.	U	20.	U	10.	U				
127-18-4	Tetrachloroethene	10.	U	10.	U	20.	U	10.	U				
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	20.	U	10.	U				
108-88-3	Toluene	10.	U	10.	U	20.	U	10.	U				
108-90-7	Chlorobenzene	10.	U	10.	U	20.	U	10.	U				
100-41-4	Ethylbenzene	10.	U	10.	U	20.	U	10.	U				
100-42-5	Styrene	10.	U	10.	U	20.	U	10.	U				
1330-20-7	Xylene (Total)	10.	U	10.	U	20.	U	10.	U				

*** Validation Complete ***

E/A&H VALIDATION SUMMARY REPORT

Site Name: NAS Memphis, Millington, Tennessee
CTO and Subtask No.: 0094-04730
Laboratory: NET Atlantic, Inc.
Sample Delivery Group: 1436
Matrix: Soil and Water

Samples and Analysis:

Sample ID	VOA
007C002812	X
007C002712	X
007C002512	X
007H002437	X
007H002544	X
007H002936	X

VALIDATION RESULTS

All samples were received by the laboratory intact and with the proper documentation on June 3, 1995. The following section summarizes the data validation results. Tentatively identified compounds have not been discussed in great detail, because most compounds are quantitatively uncertain (many TICs are unidentifiable and are reported as unknowns).

Volatile Organic Compound Fraction

1. All holding times were acceptable. A matrix spike/matrix spike duplicate, and field duplicate were not analyzed for this SDG. No problems were encountered during review of sample result verification.

2. Sample 007C002812 was analyzed outside the 12-hour QC requirements for the bromofluorobenzene (BFB) GC/MS instrument performance check. The sample was reanalyzed within the 12-hour QC requirements. Sample 007C002812RE will be used for investigative interpretation.

3. In the initial calibration, acetone had a %RSD outside acceptable criteria but no positive results were affected. The undetected results were not flagged because the %Ds were less than 50%.

4. In the continuing calibrations, several compounds had %Ds outside acceptable criteria, but no positive results were affected. The undetected results were not flagged because the %D was less than 50%.

5. Five method blanks were analyzed with this SDG. Methylene chloride was detected in the blanks at concentrations ranging from 10 μg/kg to 40 μg/kg and 20 μg/l. 4-Methyl-2-pentanone and bromomethane were detected in one blank each at concentrations of 10 μg/Kg and 10 μg/l, respectively. 2-Hexanone was detected in one blank at a concentration on 30 μg/Kg. As a result, methylene chloride, bromomethane, 4-methyl-2-pentanone, and 2-hexanone detected in all investigative samples were negated due to laboratory contamination.

6. The surrogate 1,2-dichloroethane-d_4 exceeded the upper QC requirements in samples 007C002712 and 007C002812RE. All positive results in these two samples were qualified at estimated (J). Sample 007C002712 was re-analyzed and the surrogate was within the QC requirements. Sample 007C002712RE was used for investigative interpretation.

7. The internal standards bromochloromethane, 1,4-difluorobenzene, and chlorobenzene-d_5 exceeded the QC requirements in samples 007C002512 and 007C002712 while 1,4-difluorobenzene and chlorobenzene-d_5 exceeded the QC requirements in sample 007C002812. The samples were re-analyzed, with the only improvement appearing in bromomethane. Because only two internal standards exceeded the QC requirements in the re-analyses, the re-analyzed samples were used for investigative interpretation.

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Primary Samples

1436 VOA													
	SAMPLE ID ------->	007-H-0024-37		007-C-0025-12RE		007-H-0025-44		007-C-0027-12RE		007-C-0028-12RE		007-H-0029-36	
	ORIGINAL ID ----->	007H002437		007C002512RE		007H002544		007C002712RE		007C002812RE		007H002936	
	LAB SAMPLE ID --->	124507		124503RE		124506		124504RE		124505RE		124508	
	SAMPLE DATE ----->	06/02/95		06/02/95		06/02/95		06/02/95		06/02/95		06/02/95	
	DATE ANALYZED --->	06/15/95		06/08/95		06/09/95		06/08/95		06/08/95		06/11/95	
	MATRIX ---------->	Water		Soil		Water		Soil		Soil		Water	
	UNITS ---------->	UG/L	A	UG/KG	A	UG/L	A	UG/KG	A	UG/KG	A	UG/L	A
CAS #	Parameter												
74-87-3	Chloromethane	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
74-83-9	Bromomethane	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
75-01-4	Vinyl chloride	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
75-00-3	Chloroethane	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
75-09-2	Methylene chloride	1.	J	13.	U	10.	U	13.	U	16.	U	10.	U
67-64-1	Acetone	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
75-15-0	Carbon disulfide	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
75-35-4	1,1-Dichloroethene	1.	J	13.	U	10.	U	13.	U	16.	U	10.	U
75-34-3	1,1-Dichloroethane	4.	J	13.	U	10.	U	13.	U	16.	U	10.	U
540-59-0	1,2-Dichloroethene (total)	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
67-66-3	Chloroform	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	13.	U	10.	U	13.	U	16.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
56-23-5	Carbon tetrachloride	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
75-27-4	Bromodichloromethane	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
78-87-5	1,2-Dichloropropane	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
79-01-6	Trichloroethene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	17.	
124-48-1	Dibromochloromethane	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
71-43-2	Benzene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
75-25-2	Bromoform	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
591-78-6	2-Hexanone	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
127-18-4	Tetrachloroethene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	7.	J
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
108-88-3	Toluene	1.	J	1.	J	1.	J	13.	UJ	2.	J	2.	J
108-90-7	Chlorobenzene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
100-41-4	Ethylbenzene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
100-42-5	Styrene	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U
1330-20-7	Xylene (Total)	10.	U	13.	UJ	10.	U	13.	UJ	16.	UJ	10.	U

*** Validation Complete ***