General Hydraulics
AKA North American Tool Co.
South Beloit, Winnebago Co.
Lan 2010450022
ILD 984767806
SF/HRS

Site Team Evaluation Prioritization

CERCLA

Analytical Results

EPA Region 5 Records Ctr.
326036

Illinois Environmental Protection Agency

2200 Churchill Road
P. O. Box 19276
Springfield, IL 62794-9276

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 21 1997

Subject: Review of Region 5 Data for General Hydraulics Code:ZZ

From: Charles T. Elly, Director Chuck E Elly
Region 5 Central Regional Laboratory

To: IEPA

Attached are the results for General Hydraulics Code:ZZ
CRL request number 970311
for analyses for Antimony, Arsenic, Cadmium, Lead, Mercury, Selenium and Thallium
Results are reported for sample designations: 97IE06S01, 97IE06S02, 97IE06D02, 97IE06S03, 97IE06S04 and 97IE06R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

RECEIVED
JUL 23 1997
IEPA/BOL

Comments on Data Quality by Reviewer

All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for General Hydraulics Code:ZZ

21 July 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

21 July 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

7/21/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

JUL 21 1997

Data Management Coordinator and Date Received

Date Transmitted JUL 21 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Method Number: GFAA Metals
Date Generated: July 15, 1997
Auther: Bai Yuen

Site Name: General Hydraulics
Charge Number(s): ESE51089
TDF Number: 5104-110
WAD Number: 05-97-1-04

GFAA NARRATIVE for Data Set 970311

Six water samples, 97IE06S01, S02, D02, S03, S04 and R01 were collected from the General Hydraulics site. All samples were submitted for the analysis of total arsenic, cadmium, lead, selenium and thallium by GFAA. The samples were collected on 06/25/97 and were received properly preserved by the CRL on 06/26/97. All samples were part of data set 970311.

All samples were digested following standard CRL GFAA digestion protocols. The samples were digested on 06/27/97. All analyses were performed within the six month holding time.

Analytical results were stored in .DAT files CDBY630.DAT, PBBY702.DAT, TLBY701.DAT, and database files ASSE070997 and ASSE071097.

Arsenic

Data Files ASSE070997 and ASSE071097

Arsenic was analyzed without incident.

All QC was within the specified control limits.

Cadmium

Data File CDBY630.DAT

Cadmium was analyzed without incident.

All QC was within the specified control limits.

Lead

Data File PBBY702.DAT

Lead was analyzed without incident.

All QC was within the specified control limits.

Narrative by: B. Yuen ESAT
Date: 7-15-97

Thallium

Data File TLBY701.DAT

Thallium was analyzed without incident.

All other QC was within the specified control limits.

Selenium

Data Files ASSE070997 and ASSE071097

Selenium was analyzed without incident.

All QC was within the specified control limits.

Acceptable results for arsenic, cadmium, lead, selenium and thallium were obtained for the samples.

Narrative by: B. Green ESAT
Date: 7-15-97

Method Number: 3114B
Date Generated: 07-07-97
TDF Number: 5104-110

SiteName: GENERAL HYDRAULICS)
Charge Number: ESE-51-089
Work Assignment Number: 05-97-1-04

FIAS NARRATIVE for Data Set 970311

6 water samples from data set 970311 (97IE06S01- S04, D02 and R01) were submitted for the analysis of total antimony by hydride AA. The samples were collected on 06/25/97.

All samples, QC checks and standards were digested following standard CRL FIAS digestion protocols for waters on 06-27-97 and were analyzed on 06-30-97. The data for samples from data set 970311 and all required QC were acceptable.

The hold time for metals is six months. All samples were analyzed within the six month hold time for metals. A spiked blank, used as a laboratory control sample (LFM), was digested and analyzed with the set of samples. Analytical results for 970311 were stored in .DAT file SBLL0630.DAT.

Narrative by: I. Fonau ESAT
Date: 7/16/97

Data Set: 970311	**Site Name:** GENERAL HYDRAULICS
Date Generated: 07-07-97	**WA Number:** 05-97-1-04
Author: Larisa Leonova	**TDF Number:** 5104-110
Method Number: 3114*B	**Charge Number:** ESE-51-089

Hg NARRATIVE for Data Set 970311

6 water samples (97IE06S01-S04,D02 and R01) were submitted for the analysis of total mercury by cold vapor FIAS AA. The samples were collected on 06/25/97 and were received by the CRL properly preserved on 06/26/97. All samples were part of the data set 970311.

All samples and standards were digested following standard CRL cold vapor FIAS AA digestion protocols for waters on 07/01/97. The holding time for Hg is 28 days. All samples were analyzed on 07/02/97, within the 28 day hold time for mercury.

A spiked blank, used as a laboratory control sample (LCS), was digested and analyzed with the set of samples. Analytical results were stored in .DAT file HGLL0702.DAT.

The calibration curve correlation coefficient, QC check samples and method blanks were within the methods control limits. All sample results were acceptable.

L. Leonova
7/7/97

SAMPLE RESULTS (UG/L) FOR DATA SET 970311

Sample # 97IE06	As	Sb	Cd	Pb	Se	Tl
S01	0.5U	1U	0.2U	2U	0.5U	2U
S02	0.5U	1U	0.2U	2U	0.6	2U
D02	0.5U	1U	0.3	2U	0.5U	2U
S03	0.5U	1U	0.2U	2U	0.5U	2U
S04	0.5U	1U	0.2U	2U	1U	2U
R01	0.5U	1U	0.2U	2U	0.5U	2U
ANALYST DATE	B. Green 7-16-97	I. Teon 7-16-97	B. Green 7-16-97	B. Green 7-16-97	B. Green 7-16-97	B. Green 7-16-97

1 July 97

FINAL SAMPLE REPORT FOR Hg
DATA SET 970311
GENERAL HYDRAULICS
(ug/L)

SAMPLE	DATE	ANALYST	Hg RESULT REPORTED
97IE06S01	07/02/97	L. Fe	0.2 U
97IE06S02	07/02/97	L. Fe	0.2 U
97IE06D02	07/02/97	L. Fe	0.2 U
97IE06S03	07/02/97	L. Fe	0.2 U
97IE06S04	07/02/97	L. Fe	0.2 U
97IE06R01	07/02/97	L. Fe	0.2 U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: September 4, 1997

SUBJECT: Review of Data
Received for Review on August 22, 1997

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

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: General Hydraulics (IL)
CASE NUMBER: 25526 SDG NUMBER: MEATD2

Number and Type of Samples: 5 water and 5 soil samples

Sample Numbers: MEATD5-7, MEAXG7-8, MEATD2-3, MEAXC8-9 and MEAXD0

Laboratory: Columbia Hrs. for Review: _____

Following are our findings: All data are usable with the qualifications described in the attached narrative.

L. Finkelberg
09-04-97

CC: Cecilia Luckett
Region 5 TPO
Mail Code: SM-5J

NARRATIVE

The laboratory's portion of this case contains five water samples (MEATD5, MEATD6, MEATD7, MEAXG7 and MEAXG8) and five soil samples (MEATD2, MEATD3, MEAXC8, MEAXC9 and MEAXD0) analyzed for total metals and CN. Below is a summary of the out of control audits and the possible effects on the data for this case.

EVIDENTIAL AUDIT: ICP, GFAA, Hg and CN raw data are originals. The airbills, DC-1 (log-in sheet), traffic report/chain of custody sheet and DC-2 form (inventory sheet) are originals and are present in the order indicated on the DC-2 form. All original sample tags are included in the case.

WATER SAMPLES: (MEATD5, MEATD6, MEATD7, MEAXG7 and MEAXG8)

ICP ANALYSES: The serial dilution audit for Zn (39.5%) was out of control. The CCBs were found to contain Zn (17.5 µg/L). The Zn results for MEATD5, MEATD6, MEATD7 and MEAXG8 are estimated (J) due to interference and contamination. The Zn result for MEAXG7 is estimated (J) due to interference.

The CCBs were found to contain Al (56.8 µg/L), Ca (59.2 µg/L), Fe (37.4 µg/L), V (1.6 µg/L), Cr (6.1 µg/L), Ni (27.3 µg/L), Ag (2.1 µg/L), Cu (14.8 µg/L), Co (6.5 µg/L). The Al, Ca, Fe, V results for MEAXG8; Cr results for MEATD5, MEATD6, MEATD7; Ni result for MEATD7; Ag result for MEAXG7; Cu and Co results for MEATD5, MEATD6, MEATD7, MEAXG8 are estimated (J) due to contamination.

GFAA ANALYSES: The duplicate audit for As (58.1% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-CRDL) for water sample. The As result for all water samples are not qualified on this basis. The matrix spike recovery for As (54.8%) was out of control. The As results for MEATD5, MEATD6, MEATD7 and MEAXG7 are estimated (J) due to low bias. The As result for MEAXG8 is estimated (UJ) due to possible elevation of the detection limit.
The duplicate audit for Pb (21.1% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-CRDL) for water samples. The Pb result for MEAXG8 was flagged (W) by the laboratory which indicated interference and is estimated (UJ). The Pb results for the remaining water samples are acceptable.

The matrix spike recovery for Se (43.0%) was out of control. The Se result for MEATD7 was flagged (W) by the laboratory. The Se result for MEAXG7 was flagged (E) by the laboratory. The Se results for MEATD7 and MEAXG7 are estimated (UJ) due to interference and possible elevation of the detection limit. The Se results for MEATD5, MEATD6, MEAXG8 are estimated (UJ) due to possible elevation of the detection limit.

The matrix spike recovery for Tl (70.6%) was out of control. The Tl results for MEATD5, MEATD6, MEATD7 and MEAXG7 were flagged (W) by the laboratory. The Tl results for

MEATD5, MEATD6, MEATD7 are estimated (UJ) due to interference and possible elevation of the detection limit. The Tl result for MEAXG7 is estimated (J) due to low bias and interference. The Tl result for MEAXG8 is estimated (UJ) due to possible elevation of the detection limit.

OTHER QUALIFIERS: The Hg and CN results are acceptable.

SOIL SAMPLES: (MEATD2, MEATD3, MEAXC8, MEAXC9 and MEAXD0)

ICP ANALYSES: The matrix spike recovery for Sb (67.2%) was out of control but was not flagged by the laboratory. The (N) flag was added on Form I by the reviewer. The Sb results for MEATD2, MEATD3 and MEAXD0 are estimated (UJ) due to possible elevation of the detection limit. The Sb results for MEAXC8 and MEAXC9 are estimated (J) due to low bias.

The duplicate audit for Cd (200% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-2CRDL) for soil samples. The Cd results for all soil samples are acceptable.

The serial dilution audit for Zn (10.8% difference) was out of control. The Zn results for all soil samples are estimated (J) due to interference.

The CCBs were found to contain Co (6.5 µg/L), Ag (2.1 µg/L), K (528.9 µg/L) and Ni (27.3 µg/L). The Co results for all soil samples; the Ag results for MEATD2, MEAXC9, MEAXD0; the K results for MEATD2, MEATD3; Ni results for MEAXC8, MEAXC9, MEAXD0 are estimated (J) due to contamination.
GFAA ANALYSES: The matrix spike recovery for Se (72.9%) was out of control but was not flagged by the laboratory. The (N) flag was added on Form I by the reviewer. The Se results for MEATD2, MEAXC8, MEAXC9 and MEAXD0 were flag (W) by the laboratory. The Se results for MEATD2, MEAXC8, MEAXC9 and MEAXD0 are estimated (UJ) due to possible elevation of the detection limit and interference. The Se result for MEATD3 is estimated (UJ) due to possible elevation of the detection limit.

The matrix spike recovery for Tl (66.6%) was out of control. The Tl results for all soil samples were flagged (W) by the laboratory. The Tl results for all soil samples are estimated (UJ) due to possible elevation of the detection limit and interference.

The matrix spike recoveries for Fe (342.7%) and Pb (64.9%) were not flagged by the laboratory because the sample concentration is greater than 4 times the spike amount added. The Fe and Pb data are not qualified on this basis.

OTHER QUALIFIERS: The duplicate audit for CN (200% RPD) was flagged by the laboratory. However, the duplicate difference did not exceed the technical criterion (+/-2CRDL) for soil sample. The CN results are acceptable.

The CCBs were found to contain Hg (0.2 µg/L). The Hg results for MEATD2, MEATD3,

MEAXC9 and MEAXD0 are estimated (J) due to contamination. The Hg result for MEAXC8 is acceptable.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 21 1997

Subject: Review of Region 5 Data for General Hydraulics Code:ZZ

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: IEPA

Attached are the results for General Hydraulics Code:ZZ
CRL request number 970311
for analyses for ICP
Results are reported for sample designations: 97IE06S01, 97IE06S02, 97IE06D02, 97IE06S03, 97IE06S04 and 97IE06R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

RECEIVED
JUL 23 1997
IEPA/BOL

Review Record for General Hydraulics Code:ZZ

John N Moore 18 July 97

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

John Moore 18 July 97

Team Leader and Date (✓) Reviewed ( ) Unreviewed

Chuck E Ely 7/18/97

QC Coordinator and Date ( ) Reviewed (✓) Unreviewed
(position vacant)

Sylvia Griffin JUL 21 1997

Data Management Coordinator and Date Received

Date Transmitted JUL 21 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

7-9-97

Method Number: _200.7_____ Site Name: General Hyraulics__
& ResWell PE _____

Date Generated: June 27, 1997_____ Work Unit Number: 05-97104___
Author: _R.Dilg,Lockheed-ESAT_____ TDF Number: 5104-110_____
& 5104-109_____
Charge Number: ESE-51-089____
&ESE-51-088____

ICP NARRATIVE

This narrative covers the analysis of 6 water samples (970311) from the above first named site sampled on June 25th for ICP metals analysis. Also, the June(May) inorganic analysis PE sample (970131) dated 5-9-97 was also analyzed for ICP metals analysis.

Data Set	Sample Nos.
970311	97IE06S01, S02, D02, S03, S04, R01
970131	97OI16S01

Routine CRL microwave digestion procedures were used to prepare the samples for ICP analysis. The sample digests were analyzed using the 1160 ICP unit along with analysis run method SED5; the ICP analysis run results were stored to RUN 772. The sample digests were also analyzed for K using the TJA 61 along with analysis run method K_ONLY; the ICP analysis results were stored to RUN 772K.

RUN 772

The following lists the out-of-control QC audit check results for analysis run 772:

(Note: Since the K channel was not usable, the K values indicated in the raw run data and in the QC reports are not included in the listing below.)

AQCs:	AQC 1:	Al3961	5.1%R
		Be2348	5.3 "
	AQC 1A:	Fe2599	5.5 "
		Mg279L	6.9 "

All As, Cd, and Pb sample results were too low to be reliably reported using ICP values. Refer to GFAA and / or FIAS analyses for reported As, Cd, and Pb sample results.

The ICP instrument was restandardized just prior to the start of the sample analysis run; the applicable mid range QC audit checks (AQC's) preceding this run began with AQC 1B. All Al, Be, Fe, and Mg sample results are usable.

JN
7-9-97

RUN 772 (continued)

Since the RLIMS was unavailable at this time, simulated or "RLIMS-like" sample report forms were generated and were edited using Word Perfect so that the sample analysis data could be reported at least via hard copy reports. In addition, no RLIMS entry was performed as of the time of the writing of this case narrative.

RUN 772K

All K sample results are usable.

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: IEPA
SAMPLE REQUESTOR: MARK WAGNER
LABORATORY: ESAT
SAMPLE FACILITY: GENERAL HYDRAULICS
SAMPLE BATCH ID: 970311
ACCOUNT NO: TFA301

SAMPLE: 97IE06S01 FIELD: 97IE06S01

COLLECTED: RECEIVED: 26 JUNE 97 ANALYZED: 2 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	50.4	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	77900	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	35800	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	12700	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: PD 7-7-97

18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: IEPA
SAMPLE BATCH ID: 970311
SAMPLE REQUESTOR: MARK WAGNER
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: GENERAL HYDRAULICS

SAMPLE: 97IE06S02
FIELD: 97IE06S02

COLLECTED:
RECEIVED: 26 JUNE 97
ANALYZED: 2 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	49.6	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	80000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6.2	(ug/L)
Iron	80 U	(ug/L)
Magnesium	36100	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	16300	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: IEPA
SAMPLE BATCH ID: 970311
SAMPLE REQUESTOR: MARK WAGNER
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: GENERAL HYDRAULICS

SAMPLE: 97IE06D02
FIELD: 97IE06D02

COLLECTED:
RECEIVED: 26 JUNE 97
ANALYZED: 2 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	49.5	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	80200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	36300	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	16300	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RX 7-7-97

18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: IEPA
SAMPLE BATCH ID: 970311
SAMPLE REQUESTOR: MARK WAGNER
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: GENERAL HYDRAULICS

SAMPLE: 97IE06S03
FIELD: 97IE06S03

COLLECTED:
RECEIVED: 26 JUNE 97
ANALYZED: 2 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	53.2	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	80200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	9.1	(ug/L)
Iron	80 U	(ug/L)
Magnesium	36500	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	15200	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: IEPA
SAMPLE REQUESTOR: MARK WAGNER
LABORATORY: ESAT
SAMPLE FACILITY:
SAMPLE BATCH ID: 970311
ACCOUNT NO: TFA301
GENERAL HYDRAULICS

SAMPLE: 97IE06S04
FIELD: 97IE06S04

COLLECTED:
RECEIVED: 26 JUNE 97
ANALYZED: 2 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	58.2	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	94200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	40000	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
otassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	28500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	153	(ug/L)

ANALYZED BY: 7-7-97

18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: IEPA
SAMPLE BATCH ID: 970311
SAMPLE REQUESTOR: MARK WAGNER
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: GENERAL HYDRAULICS

SAMPLE: 97IE06R01
FIELD: 97IE06R01

COLLECTED:
RECEIVED: 26 JUNE 97
ANALYZED: 2 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	500 U	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	100 U	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	1000 U	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-18-97

Jm 18 July 97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: SEP 25 1997

Subject: Review of Region 5 Data for **GENERAL HYDRAULICS**

RECEIVED
SEP 29 1997
IEPA/BOL

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To: IEPA

Attached are the results for **GENERAL HYDRAULICS**
CRL request number **970311**
for analyses for **Cyanide**
Results are reported for sample designations: 97IE06S01, 97IE06S02, 97IE06D02, 97IE06S03 and 97IE06S04

Results Status:

(X) Acceptable for Use: **Cyanide**
( ) Data Qualified, but Acceptable for use:
( ) Data Unacceptable for Use:

( ) Sewer Disposal Criteria Met;

Comments on Data Quality by Reviewer:

All the water samples submitted for Cyanide analysis with the exception of sample 97ZB05S07 were assayed and the results are attached. The matrix spike and control standard distilled with the samples were prepared at 40 µg CN/L instead of 100 µg CN/L as required. The matrix spike and control standard recoveries were 98.7% and 97.4% respectively. All other required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits. Field blank sample 97IE06R01 was found to be acidic (pH less than 2) and was not analyzed. The only other field blank sample submitted for inorganic analyses was found to be acidic as required

when preserving for metals analyses. No cyanide result is available for sample 97IE06R01. All the other sample results are acceptable for use.

Comments on Sample Results:

All the cyanide results are acceptable for use.

Comments by Laboratory Director or Quality Control Coordinator:

Francis A. Awanya 9/24/97
Review and Date (X) Reviewed ( ) Unreviewed

24 Sept 97
Team Leader and Date (✓) Reviewed ( ) Unreviewed

QC Coordinator and Date ( ) Reviewed ( ) Unreviewed

Sylvia Griffin SEP 25 1997
Data Management Coordinator and Date Received

Date Transmitted SEP 25 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

Method: 335.2NS
Site: General Hydraulics
Date: July 15, 1997

TDF: 5104-110
PWO: ESE51089
WAD: 05-97-1-04

NARRATIVE

Six water samples from General Hydraulics (data set 970311) were collected on June 25, 1997 and were received by CRL on June 26, 1997. Sample 97IE06R01 was acidic (pH was less than 2) when received. The metals aliquot for this sample was obtained to determine whether the sample tags may have been switched; however, the metals aliquot was preserved at a pH less than 2. Since all other sample tags and preservation were proper and consistent, the analyst assumes that the cyanide aliquot for this sample was improperly preserved in the field. It was decided after consultation with CRL staff that this sample should not be analyzed.

The five remaining samples were distilled and analyzed using CRL methods with one deviation. The matrix spike and distilled AQC sample were spiked at a level of 40 ug/l CN instead of the 100 ug/l level required by the distillation method. The distillates were analyzed using a Lachat QuickChem AE analyzer. In evaluation the usability of the data, the method acceptance limits were used on percentage basis (e.g. 100 $\pm$ 15 ug/l became 100 $\pm$ 15%, or 40 $\pm$ 6 ug/l).

All samples were analyzed within the 14-day holding time limit.

All QC audits were in control. All results are acceptable.

J. Gary
9-24-97

GENERAL HYDRAULICS (970311)

CYANIDE RESULTS (UG/L) FOR DATA SET 970311

Sample #	Analysis Date	Concentration	Analyst	Date
97IE06S01	7-7-97	8U	J. Gary	7-15-97
97IE06S02	7-7-97	8U	J. Gary	7-15-97
97IE06D02	7-7-97	8U	J. Gary	7-15-97
97IE06S03	7-7-97	8U	J. Gary	7-15-97
97IE06S04	7-7-97	8U	J. Gary	7-15-97

FAA 9/24/97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: ~~August 27, 1997~~ 09-04-97

SUBJECT: Review of Data
Received for Review on August 22, 1997

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Technical Support Section / L.F.

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: General Hydraulics (IL)

CASE NUMBER: 25526 SDG NUMBER: MEATD2

Number and Type of Samples: 5 water and 5 soil samples

Sample Numbers: MEATD5-7, MEAXG7-8, MEATD2-3, MEAXC8-9 and MEAXD0

Laboratory: Columbia Hrs. for Review: 10 +1

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg
09-04-97

RECEIVED
SEP 15 1997
IEPA/BOL

CC: Cecilia Luckett
Region 5 TPO
Mail Code: SM-5J

Case Number : 25526
Site Name: General Hydraulics

SDG Number: MEATD2
Laboratory: Columbia

NARRATIVE

The laboratory's portion of this case contains five water samples (MEATD5, MEATD6, MEATD7, MEAXG7 and MEAXG8) and five soil samples (MEATD2, MEATD3, MEAXC8, MEAXC9 and MEAXD0) analyzed for total metals and CN. Below is a summary of the out of control audits and the possible effects on the data for this case.

EVIDENTIAL AUDIT: ICP, GFAA, Hg and CN raw data are originals. The airbills, DC-1 (log-in sheet), traffic report/chain of custody sheet and DC-2 form (inventory sheet) are originals and are present in the order indicated on the DC-2 form. All original sample tags are included in the case.

WATER SAMPLES: (MEATD5, MEATD6, MEATD7, MEAXG7 and MEAXG8)

ICP ANALYSES: The serial dilution audit for Zn (39.5%) was out of control. The CCBs were found to contain Zn (17.5 µg/L). The Zn results for MEATD5, MEATD6, MEATD7 and MEAXG8 are estimated (J) due to interference and contamination. The Zn result for MEAXG7 is estimated (J) due to interference.

The CCBs were found to contain Al (56.8 µg/L), Ca (59.2 µg/L), Fe (37.4 µg/L), V (1.6 µg/L), Cr (6.1 µg/L), Ni (27.3 µg/L), Ag (2.1 µg/L), Cu (14.8 µg/L), Co (6.5 µg/L). The Al, Ca, Fe, V results for MEAXG8; Cr results for MEATD5, MEATD6, MEATD7; Ni result for MEATD7; Ag result for MEAXG7; Cu and Co results for MEATD5, MEATD6, MEATD7, MEAXG8 are estimated (J) due to contamination.

GFAA ANALYSES: The duplicate audit for As (58.1% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-CRDL) for water sample. The As result for all water samples are not qualified on this basis. The matrix spike recovery for As (54.8%) was out of control. The As results for MEATD5, MEATD6, MEATD7 and MEAXG7 are estimated (J) due to low bias. The As result for MEAXG8 is estimated (UJ) due to possible elevation of the detection limit.

The duplicate audit for Pb (21.1% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-CRDL) for water samples. The Pb result for MEAXG8 was flagged (W) by the laboratory which indicated interference and is estimated (UJ). The Pb results for the remaining water samples are acceptable.

The matrix spike recovery for Se (43.0%) was out of control. The Se result for MEATD7 was flagged (W) by the laboratory. The Se result for MEAXG7 was flagged (E) by the laboratory. The Se results for MEATD7 and MEAXG7 are estimated (UJ) due to interference and possible elevation of the detection limit. The Se results for MEATD5, MEATD6, MEAXG8 are estimated (UJ) due to possible elevation of the detection limit.

Reviewed By: Steffanie Tobin (Lockheed/ESAT)
Date: August 27, 1997

Case Number : 25526 **SDG Number: MEATD2**
Site Name: General Hydraulics **Laboratory: Columbia**

The matrix spike recovery for Tl (70.6%) was out of control. The Tl results for MEATD5, MEATD6, MEATD7 and MEAXG7 were flagged (W) by the laboratory. The Tl results for MEATD5, MEATD6, MEATD7 are estimated (UJ) due to interference and possible elevation of the detection limit. The Tl result for MEAXG7 is estimated (J) due to low bias and interference. The Tl result for MEAXG8 is estimated (UJ) due to possible elevation of the detection limit.

OTHER QUALIFIERS: The Hg and CN results are acceptable.

SOIL SAMPLES: (MEATD2, MEATD3, MEAXC8, MEAXC9 and MEAXD0)

ICP ANALYSES: The matrix spike recovery for Sb (67.2%) was out of control but was not flagged by the laboratory. The (N) flag was added on Form I by the reviewer. The Sb results for MEATD2, MEATD3 and MEAXD0 are estimated (UJ) due to possible elevation of the detection limit. The Sb results for MEAXC8 and MEAXC9 are estimated (J) due to low bias.

The matrix spike recovery for Fe (342.7%) was not flagged by the laboratory because the sample result was greater than 4X the spike result. The Fe results are acceptable.

The duplicate audit for Cd (200% RPD) was not flagged by the laboratory because the duplicate difference did not exceed the technical criterion (+/-2CRDL) for soil samples. The Cd results for all soil samples are acceptable.

The serial dilution audit for Zn (10.8% difference) was out of control. The Zn results for all soil samples are estimated (J) due to interference.

The CCBs were found to contain Co (6.5 μg/L), Ag (2.1 μg/L), K (528.9 μg/L) and Ni (27.3 μg/L). The Co results for all soil samples; the Ag results for MEATD2, MEAXC9, MEAXD0; the K results for MEATD2, MEATD3; Ni results for MEAXC8, MEAXC9, MEAXD0 are estimated (J) due to contamination.

GFAA ANALYSES: The matrix spike recovery for Se (72.9%) was out of control but was not flagged by the laboratory. The (N) flag was added on Form I by the reviewer. The Se results for MEATD2, MEAXC8, MEAXC9 and MEAXD0 were flag (W) by the laboratory. The Se results for MEATD2, MEAXC8, MEAXC9 and MEAXD0 are estimated (UJ) due to possible elevation of the detection limit and interference. The Se result for MEATD3 is estimated (UJ) due to possible elevation of the detection limit.

The matrix spike recovery for Pb (64.9%) was not flagged by the laboratory because the sample result was greater than 4X the spike result. The Pb results are acceptable.

The matrix spike recovery for Tl (66.6%) was out of control. The Tl results for all soil samples were flagged (W) by the laboratory.

Reviewed By: Steffanie Tobin (Lockheed/ESAT)
Date: August 27, 1997

Case Number : 25526 **SDG Number: MEATD2**
Site Name: General Hydraulics **Laboratory: Columbia**

The Tl results for all soil samples are estimated (UJ) due to possible elevation of the detection limit and interference.

OTHER QUALIFIERS: The duplicate audit for CN (200% RPD) was flagged by the laboratory. However, the duplicate difference did not exceed the technical criterion (+/-2CRDL) for soil sample. The CN results are acceptable.

The CCBs were found to contain Hg (0.2 μg/L). The Hg results for MEATD2, MEATD3, MEAXC9 and MEAXD0 are estimated (J) due to contamination. The Hg result for MEAXC8 is acceptable.

Reviewed By: Steffanie Tobin (Lockheed/ESAT)
Date: August 27, 1997

DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J Indicates the associated value is an estimated quantity.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

M Indicates duplicate injection precision is not met.

N Indictaes the spike sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

QC EXCEPTION MARY REPORT

CASE\SAS#: 25526 SITE: General Hydraulics MATRIX: Soil / water WATER SAMPLE SPK: MEATD7

DATA SET: MEATD2 LAB: Columbia CONC: low WATER SAMPLE DUP: MEATD7

LAB QC # MEATD2 / MEATD7 REVIEWED BY: Stefanie Tobia SOIL SAMPLE SPK: MEATD2

DATE: 8-25-97 SOIL SAMPLE DUP: MEATD2

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	
ALUMINUM	OK		OK	56.8	~~33.680~~	~~1.259~~			OK	OK	OK									
ANTIMONY								67.2												
ARSENIC						~~0.140~~									54.8					
BARIUM				~~1.6~~																
BERYLLIUM																				
CADMIUM																				
CALCIUM				59.2	~~35.315~~	~~4.711~~														
CHROMIUM				6.1																
COBALT				6.5																
COPPER				14.8	~~1.580~~															
IRON				37.4	~~16.935~~	~~0.275~~														
LEAD				~~0.7~~																
MAGNESIUM																				
MANGANESE																				
MERCURY				0.2																
NICKEL				27.3																
POTASSIUM				~~528.9~~																
SELENIUM		~~50.3~~						72.9							43.0					
SILVER				2.1																
SODIUM				~~20.0~~	~~18.020~~	~~3.013~~														
THALLIUM								66.6							70.6					
TIN																				
VANADIUM				1.6																
ZINC				17.5	~~6.745~~	~~0.781~~						~~10.8~~	10.3							
CYANIDE	✓		✓						~~20.0~~	✓	✓	39.5								

In Reference to Case No(s):
Case 25526
SDG : MEATD2

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

Date of Call: 8.26.97

Laboratory Name: Columbia 360-577-7222
Lab Contact: Eileen M Arnold

Region: V
Regional Contact: Stefanie N. Tobin (Lockheed/ESAT)

Call Initiated By: ____ Laboratory ✓ Region

In reference to data for the following sample number(s):

Water sample

Summary of Questions/Issues Discussed:

The duplicate report (Form VI) for the water sample MEATD7 [illegible] with the data package (2 duplicate report for soil sample [illegible] the data package).

[illegible] and told her I called the lab.

Summary of Resolution:

received 8/26/97

Stefanie N. Tobin
Signature

[illegible]
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MEATD2	K970447001
MEATD2D	K970447001
MEATD2S	K970447001
MEATD3	K970447002
MEATD3D	K970447002
MEATD3S	K970447002
MEATD5	K970447003
MEATD6	K970447004
MEATD7	K970447005
MEATD7D	K970447005
MEATD7S	K970447005
MEAXC8	K970447006
MEAXC9	K970447007
MEAXD0	K970447008
MEAXG7	K970447009
MEAXG8	K970447010

Were ICP interelement corrections applied? Yes/No YES

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

Comments:

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

Signature: Eileen M Arnold Name: EILEEN M ARNOLD

Date: 8/15/97 Title: Project Chemist

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEATD2

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): SOIL Lab Sample ID: K970447001

Level (low/med): LOW Date Received: 06/26/97

% Solids: 86.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7040			P
7440-36-0	Antimony	2.5	U	N	P
7440-38-2	Arsenic	2.7			F
7440-39-3	Barium	78.0			P
7440-41-7	Beryllium	0.46	B		P
7440-43-9	Cadmium	0.69	B		P
7440-70-2	Calcium	19100			P
7440-47-3	Chromium	97.5			P
7440-48-4	Cobalt	4.9	B		P
7440-50-8	Copper	118			P
7439-89-6	Iron	18300			P
7439-92-1	Lead	73.6			F
7439-95-4	Magnesium	8400			P
7439-96-5	Manganese	387			P
7439-97-6	Mercury	0.05	B		CV
7440-02-0	Nickel	50.7			P
7440-09-7	Potassium	471	B		P
7782-49-2	Selenium	0.30	U	WN	F
7440-22-4	Silver	0.42	B		P
7440-23-5	Sodium	78.8	B		P
7440-28-0	Thallium	0.28	B	NW	F
7440-62-2	Vanadium	15.9			P
7440-66-6	Zinc	127		E	P
	Cyanide	0.35	U	*	AS

ST 8/27/97

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

25526 00002

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEATD3

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): SOIL Lab Sample ID: K970447002

Level (low/med): LOW Date Received: 06/26/97

% Solids: 94.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4870			P
7440-36-0	Antimony	2.3	U	N	P
7440-38-2	Arsenic	3.0			F
7440-39-3	Barium	21.2	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	1370			P
7440-47-3	Chromium	11.2			P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	28.7			P
7439-89-6	Iron	11900			P
7439-92-1	Lead	19.5			F
7439-95-4	Magnesium	612	B		P
7439-96-5	Manganese	134			P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	30.1			P
7440-09-7	Potassium	329	B		P
7782-49-2	Selenium	0.27	U	N	F
7440-22-4	Silver	0.38	U		P
7440-23-5	Sodium	103	B		P
7440-28-0	Thallium	0.25	B	NW	F
7440-62-2	Vanadium	8.0	B		P
7440-66-6	Zinc	23.4		E	P
	Cyanide	0.32	U	*	AS

* 8/27/97

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEATD5

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): WATER Lab Sample ID: K970447003

Level (low/med): LOW Date Received: 06/26/97

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4730			P
7440-36-0	Antimony	13.0	U		P
7440-38-2	Arsenic	0.80	B	N	F
7440-39-3	Barium	80.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.9	U		P
7440-70-2	Calcium	100000			P
7440-47-3	Chromium	11.6			P
7440-48-4	Cobalt	5.2	B		P
7440-50-8	Copper	8.9	B		P
7439-89-6	Iron	7720			P
7439-92-1	Lead	102			F
7439-95-4	Magnesium	46500			P
7439-96-5	Manganese	447			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	13.5	U		P
7440-09-7	Potassium	3700	B		P
7782-49-2	Selenium	1.3	U	N	F
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	20400			P
7440-28-0	Thallium	0.70	U	NW	F
7440-62-2	Vanadium	15.4	B		P
7440-66-6	Zinc	41.5		E	P
	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEATD6

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): WATER Lab Sample ID: K970447004

Level (low/med): LOW Date Received: 06/26/97

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4500			P
7440-36-0	Antimony	13.0	U		P
7440-38-2	Arsenic	0.80	B	N	F
7440-39-3	Barium	76.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.9	U		P
7440-70-2	Calcium	97900			P
7440-47-3	Chromium	9.4	B		P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	7.4	B		P
7439-89-6	Iron	6810			P
7439-92-1	Lead	70.0			F
7439-95-4	Magnesium	45100			P
7439-96-5	Manganese	389			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	13.5	U		P
7440-09-7	Potassium	3740	B		P
7782-49-2	Selenium	1.3	U	N	F
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	20300			P
7440-28-0	Thallium	0.70	U	NW	F
7440-62-2	Vanadium	15.1	B		P
7440-66-6	Zinc	40.4		E	P
	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEATD7

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): WATER Lab Sample ID: K970447005

Level (low/med): LOW Date Received: 06/26/97

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13500			P
7440-36-0	Antimony	13.0	U		P
7440-38-2	Arsenic	1.1	B	N	F
7440-39-3	Barium	166	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.9	U		P
7440-70-2	Calcium	99400			P
7440-47-3	Chromium	27.0			P
7440-48-4	Cobalt	10.2	B		P
7440-50-8	Copper	16.4	B		P
7439-89-6	Iron	21200			P
7439-92-1	Lead	10.5			F
7439-95-4	Magnesium	51100			P
7439-96-5	Manganese	1380			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	21.1	B		P
7440-09-7	Potassium	6100			P
7782-49-2	Selenium	1.3	U	NW	F
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	6430			P
7440-28-0	Thallium	0.70	U	NW	F
7440-62-2	Vanadium	48.0	B		P
7440-66-6	Zinc	70.8		E	P
	Cyanide	3.0	U		AS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEAXC8

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): SOIL Lab Sample ID: K970447006

Level (low/med): LOW Date Received: 06/26/97

% Solids: 90.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5980			P
7440-36-0	Antimony	3.8	B	N	P
7440-38-2	Arsenic	3.0			F
7440-39-3	Barium	64.0			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.55	B		P
7440-70-2	Calcium	39700			P
7440-47-3	Chromium	12.7			P
7440-48-4	Cobalt	4.6	B		P
7440-50-8	Copper	22.4			P
7439-89-6	Iron	10800			P
7439-92-1	Lead	87.5			F
7439-95-4	Magnesium	21000			P
7439-96-5	Manganese	355			P
7439-97-6	Mercury	0.09			CV
7440-02-0	Nickel	11.5			P
7440-09-7	Potassium	724	B		P
7782-49-2	Selenium	0.29	U	WN	F
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	103	B		P
7440-28-0	Thallium	0.31	B	NW	F
7440-62-2	Vanadium	17.5			P
7440-66-6	Zinc	102		E	P
	Cyanide	0.33	U	*	AS

st 8/27/97

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEAXC9

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): SOIL Lab Sample ID: K970447007

Level (low/med): LOW Date Received: 06/26/97

% Solids: 77.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900			P
7440-36-0	Antimony	4.7	B	N	P
7440-38-2	Arsenic	2.8			F
7440-39-3	Barium	149			P
7440-41-7	Beryllium	0.87	B		P
7440-43-9	Cadmium	0.53	B		P
7440-70-2	Calcium	11900			P
7440-47-3	Chromium	19.5			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	67.9			P
7439-89-6	Iron	16500			P
7439-92-1	Lead	32.2			F
7439-95-4	Magnesium	4620			P
7439-96-5	Manganese	762			P
7439-97-6	Mercury	0.10	B		CV
7440-02-0	Nickel	34.0			P
7440-09-7	Potassium	796	B		P
7782-49-2	Selenium	0.33	U	WN	F
7440-22-4	Silver	0.55	B		P
7440-23-5	Sodium	76.7	B		P
7440-28-0	Thallium	0.39	B	NW	F
7440-62-2	Vanadium	23.6			P
7440-66-6	Zinc	117		E	P
	Cyanide	0.39	U	*	AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEAXG7

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): WATER Lab Sample ID: K970447009

Level (low/med): LOW Date Received: 06/26/97

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	149000			P
7440-36-0	Antimony	35.6	B		P
7440-38-2	Arsenic	41.9		NS	F
7440-39-3	Barium	2530			P
7440-41-7	Beryllium	10.1			P
7440-43-9	Cadmium	13.9			P
7440-70-2	Calcium	423000			P
7440-47-3	Chromium	226			P
7440-48-4	Cobalt	103			P
7440-50-8	Copper	429			P
7439-89-6	Iron	207000			P
7439-92-1	Lead	2810			F
7439-95-4	Magnesium	179000			P
7439-96-5	Manganese	5320			P
7439-97-6	Mercury	4.8			CV
7440-02-0	Nickel	247			P
7440-09-7	Potassium	17200			P
7782-49-2	Selenium	6.5	U	EN	F
7440-22-4	Silver	4.1	B		P
7440-23-5	Sodium	27800			P
7440-28-0	Thallium	6.0	B	NW	F
7440-62-2	Vanadium	346			P
7440-66-6	Zinc	2950		E	P
	Cyanide	4.0	B		AS

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MEAXD0

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): SOIL Lab Sample ID: K970447008

Level (low/med): LOW Date Received: 06/26/97

% Solids: 80.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	3.0	U	N	P
7440-38-2	Arsenic	2.9			F
7440-39-3	Barium	133			P
7440-41-7	Beryllium	0.78			P
7440-43-9	Cadmium	0.57			P
7440-70-2	Calcium	11200			P
7440-47-3	Chromium	21.0			P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	66.7			P
7439-89-6	Iron	15400			P
7439-92-1	Lead	28.0			F
7439-95-4	Magnesium	4750			P
7439-96-5	Manganese	549			P
7439-97-6	Mercury	0.09	B		CV
7440-02-0	Nickel	26.5			P
7440-09-7	Potassium	907	B		P
7782-49-2	Selenium	0.32	U	WN	F
7440-22-4	Silver	0.64	B		P
7440-23-5	Sodium	73.1	B		P
7440-28-0	Thallium	0.30	B	NW	F
7440-62-2	Vanadium	23.5			P
7440-66-6	Zinc	102		E	P
	Cyanide	0.38	U	*	AS

8/27/97

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

00009

~~00006~~ SMA 8/18/97

FORM I - IN 25526 ILM04.0

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MEAXG8

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): WATER Lab Sample ID: K970447010

Level (low/med): LOW Date Received: 06/26/97

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.9	B		P
7440-36-0	Antimony	13.0	U		P
7440-38-2	Arsenic	0.60	U	N	F
7440-39-3	Barium	0.90	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.9	U		P
7440-70-2	Calcium	97.7	B		P
7440-47-3	Chromium	2.6	U		P
7440-48-4	Cobalt	5.4	B		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	45.4	B		P
7439-92-1	Lead	0.60	U	W	F
7439-95-4	Magnesium	91.3	U		P
7439-96-5	Manganese	1.4	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	13.5	U		P
7440-09-7	Potassium	257	U		P
7782-49-2	Selenium	1.3	U	N	F
7440-22-4	Silver	1.8	U		P
7440-23-5	Sodium	102	B		P
7440-28-0	Thallium	0.70	U	N	F
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	18.7	B	E	P
	Cyanide	3.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Preparation Blank Matrix (soil/water): SOIL

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	6.2	U	6.2	U	56.8	B	6.2	U	1.259	B	P
Antimony	13.0	U	13.0	U	13.0	U	13.0	U	2.600	U	P
Arsenic	0.6	U	0.6	U	0.6	U	0.6	U	0.140	B	F
Barium	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Cadmium	1.9	U	1.9	U	1.9	U	1.9	U	0.380	U	P
Calcium	13.2	B	4.3	U	59.2	B	16.4	B	4.711	B	P
Chromium	2.6	U	2.6	U	2.6	U	2.6	U	0.520	U	P
Cobalt	3.8	B	3.2	U	3.2	U	3.2	U	0.640	U	P
Copper	2.9	B	0.8	B	1.8	B	0.8	B	0.140	U	P
Iron	1.5	B	1.2	U	37.4	B	11.6	B	0.275	B	P
Lead	-0.7	B	-0.8	B	-0.8	B	0.6	U	0.120	U	F
Magnesium	91.3	U	91.3	U	91.3	U	91.3	U	18.260	U	P
Manganese	0.7	U	0.7	U	0.7	U	0.7	U	0.140	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel	13.5	U	13.5	U	13.5	U	13.5	U	2.700	U	P
Potassium	256.9	U	256.9	U	267.1	B	528.9	B	51.380	U	P
Selenium	1.3	U	1.3	U	1.3	U	1.3	U	0.260	U	F
Silver	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Sodium	13.3	B	12.1	U	12.1	U	12.1	U	3.013	B	P
Thallium	0.7	U	0.7	U	0.7	U	0.7	U	0.140	U	F
Vanadium	1.4	U	1.4	U	1.4	U	1.6	B	0.280	U	P
Zinc	12.1	B	4.5	B	3.4	B	2.2	B	0.781	B	P
Cyanide	6.0	U	6.0	U	6.0	U	6.0	U	0.300	U	AS

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3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			46.1	B	7.7	B	40.5	B	33.680	B	P
Antimony			13.0	U	13.0	U	13.0	U	13.000	U	P
Arsenic			0.6	U	0.6	U	0.6	U	0.600	U	F
Barium			0.9	U	0.9	U	1.6	B	0.900	U	P
Beryllium			1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium			1.9	U	1.9	U	1.9	U	1.900	U	P
Calcium			48.5	B	6.6	B	39.3	B	35.315	B	P
Chromium			2.6	U	2.6	U	6.1	B	2.600	U	P
Cobalt			3.2	U	3.2	U	6.5	B	3.200	U	P
Copper			3.3	B	0.7	U	14.8	B	1.580	B	P
Iron			36.4	B	7.7	B	31.0	B	16.935	B	P
Lead			0.7	B	0.6	U	0.6	U	0.600	U	F
Magnesium			91.3	U	91.3	U	91.3	U	91.300	U	P
Manganese			0.7	U	0.7	U	0.7	U	0.700	U	P
Mercury									0.100	U	CV
Nickel			13.5	U	13.5	U	13.5	U	13.500	U	P
Potassium			358.5	B	433.3	B	454.1	B	256.900	U	P
Selenium			1.3	U	1.3	U	1.3	U	1.300	U	F
Silver			1.8	U	1.8	U	1.8	U	1.800	U	P
Sodium			12.1	B	20.0	B	12.1	U	18.020	B	P
Thallium			0.7	U	0.7	U	0.7	U	0.700	U	F
Vanadium			1.4	U	1.6	B	1.4	U	1.400	U	P
Zinc			1.6	B	1.2	U	8.4	B	6.745	B	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			35.1	B							P
Antimony			13.0	U							P
Arsenic			0.6	U	0.6	U					F
Barium			0.9	U							P
Beryllium			1.0	U							P
Cadmium			1.9	U							P
Calcium			36.7	B							P
Chromium			2.6	U							P
Cobalt			3.8	B							P
Copper			6.3	B							P
Iron			27.9	B							P
Lead			0.6	U	0.6	U	0.6	U			F
Magnesium			91.3	U							P
Manganese			0.7	U							P
Mercury											
Nickel			27.3	B							P
Potassium			256.9	U							P
Selenium			1.3	U							F
Silver			2.1	B							P
Sodium			12.1	U							P
Thallium											
Vanadium			1.4	U							P
Zinc			17.5	B							P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			0.6	U							F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony	10.8	U	10.8	U	10.8	U	10.8	U			P
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury	0.2		0.1	B	0.2						CV
Nickel											
Potassium											
Selenium	1.3	U	1.3	U	1.3	U					F
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony			10.8	U							P
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEATD7S

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): WATER Level (low/med): LOW
% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		15088.9400		13503.0750		2000.00	79.3		P
Antimony	75-125	462.5800		13.0000	U	500.00	92.5		P
Arsenic	75-125	23.0000		1.1000	B	40.00	54.8	N	F
Barium	75-125	2202.9500		165.6900	B	2000.00	101.9		P
Beryllium	75-125	51.7000		1.0000	U	50.00	103.4		P
Cadmium	75-125	49.9900		1.9000	U	50.00	100.0		P
Calcium									NR
Chromium	75-125	221.9800		26.9650		200.00	97.5		P
Cobalt	75-125	515.3750		10.1700	B	500.00	101.0		P
Copper	75-125	257.4800		16.4400	B	250.00	96.4		P
Iron		22090.0050		21184.9650		1000.00	90.5		P
Lead	75-125	29.5000		10.5000		20.00	95.0		F
Magnesium									NR
Manganese	75-125	1880.4350		1376.2650		500.00	100.8		P
Mercury	75-125	0.9700		0.1000	U	1.00	97.0		CV
Nickel	75-125	515.9750		21.1450	B	500.00	99.0		P
Potassium									NR
Selenium	75-125	4.3000	B	1.3000	U	10.00	43.0	N	F
Silver	75-125	50.2800		1.8000	U	50.00	100.6		P
Sodium									NR
Thallium	75-125	35.3000		0.7000	U	50.00	70.6	N	F
Vanadium	75-125	538.6300		48.0400	B	500.00	98.1		P
Zinc	75-125	555.5450		70.8350		500.00	96.9		P
Cyanide	75-125	61.0000		3.0000	U	50.00	122.0		AS

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEATD2S

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 86.9

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide	75-125	5.4085		0.3452	U	5.75	94.1		AS

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEATD3S

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 94.9

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	70.7640		2.7397	U	105.37	67.2	N	P
Arsenic	75-125	10.4742		2.9715		8.43	89.0		F
Barium	75-125	447.5121		21.2413	B	421.50	101.1		P
Beryllium	75-125	10.5954		0.2107	U	10.54	100.5		P
Cadmium	75-125	11.0516		0.4004	U	10.54	104.9		P
Calcium									NR
Chromium	75-125	54.0516		11.1970		42.15	101.7		P
Cobalt	75-125	110.5100		3.0084	B	105.37	102.0		P
Copper	75-125	79.3267		28.7018		52.69	96.1		P
Iron		12630.6690		11908.3650		210.75	342.7		1
Lead		22.2339		19.4942		4.22	64.9		F
Magnesium									NR
Manganese	75-125	238.8904		133.9410		105.37	99.6		P
Mercury	75-125	0.4646		0.0441	U	0.48	96.8		CV
Nickel	75-125	135.7281		30.1401		105.37	100.2		P
Potassium									NR
Selenium	75-125	1.5385		0.2740	U	2.11	72.9	N	F
Silver	75-125	12.1992		0.3793	U	10.54	115.7		P
Sodium									NR
Thallium	75-125	7.2708		0.2529	B	10.54	66.6	N	F
Vanadium	75-125	109.9399		7.9737	B	105.37	96.8		P
Zinc	75-125	125.1212		23.4057		105.37	96.5		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEATD3A

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

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

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		109.41		13.00	U	120.0	91.2		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEATD3D

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

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

% Solids for Sample: 94.9 % Solids for Duplicate:

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		4872.1697		4817.4352		1.1		P
Antimony		2.2761	U	2.2761	U			P
Arsenic	2.1	2.9715		3.0980		4.2		F
Barium		21.2413	B	22.0295	B	3.6		P
Beryllium		0.2107	U	0.2107	U			P
Cadmium		0.4004	U	0.4710	B	200.0		P
Calcium	1053.7	1374.3899		1645.2856		17.9		P
Chromium		11.1970		12.5458		11.4		P
Cobalt		3.0084	B	3.4689	B	14.2		P
Copper		28.7018		28.5100		0.7		P
Iron		11908.3650		12911.5460		8.1		P
Lead		19.4942		18.9673		2.7		F
Magnesium		612.4963	B	779.3762	B	24.0		P
Manganese		133.9410		141.0432		5.2		P
Mercury		0.0441	U	0.0466	U			CV
Nickel	8.4	30.1401		37.5711		21.9		P
Potassium		328.6459	B	320.7650	B	2.4		P
Selenium		0.2740	U	0.2740	U			F
Silver		0.3793	U	0.3793	U			P
Sodium		102.7513	B	94.0948	B	8.8		P
Thallium		0.2529	B	0.2318	B	8.7		F
Vanadium		7.9737	B	8.0580	B	1.1		P
Zinc		23.4057		26.2350		11.4		P
Cyanide								AS

25526 00037

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEATD2D

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

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

% Solids for Sample: 86.9 % Solids for Duplicate: 84.5

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								P
Antimony								P
Arsenic								F
Barium								P
Beryllium								P
Cadmium								P
Calcium								P
Chromium								P
Cobalt								P
Copper								P
Iron								P
Lead								F
Magnesium								P
Manganese								P
Mercury								CV
Nickel								P
Potassium								P
Selenium								F
Silver								P
Sodium								P
Thallium								F
Vanadium								P
Zinc								P
Cyanide	0.6	0.3452	U	1.2083		200.0	*	AS

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MEATD7D

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

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

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		13503.0750		14231.3800		5.3		P
Antimony		13.0000	U	13.0000	U			P
Arsenic		1.1000	B	2.0000	B	58.1		F
Barium		165.6900	B	168.4000	B	1.6		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		1.9000	U	1.9000	U			P
Calcium		99429.8200		99702.2150		0.3		P
Chromium	10.0	26.9650		27.9150		3.5		P
Cobalt		10.1700	B	10.1000	B	0.7		P
Copper		16.4400	B	16.4800	B	0.2		P
Iron		21184.9650		21540.1300		1.7		P
Lead	3.0	10.5000		8.5000		21.1		F
Magnesium		51148.8150		51462.3400		0.6		P
Manganese		1376.2650		1382.6750		0.5		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		21.1450	B	18.6700	B	12.4		P
Potassium	5000.0	6097.1150		6267.4850		2.8		P
Selenium		1.3000	U	6.5000	U			F
Silver		1.8000	U	1.8000	U			P
Sodium	5000.0	6433.4100		6484.5700		0.8		P
Thallium		0.7000	U	0.7000	U			F
Vanadium		48.0400	B	49.5700	B	3.1		P
Zinc	20.0	70.8350		70.7950		0.1		P
Cyanide		3.0000	U	3.0000	U			AS

25526

00039

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MEAXD0L

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	44645.44		46182.80		3.4		P
Antimony	11.98	B	54.00	U	100.0		P
Arsenic							F
Barium	533.32		551.50	B	3.4		P
Beryllium	3.12	B	5.00	U	100.0		P
Cadmium	2.28	B	9.50	U	100.0		P
Calcium	44643.44		46580.20		4.3		P
Chromium	83.86		83.05		1.0		P
Cobalt	25.92	B	31.95	B	23.3		P
Copper	266.84		288.35		8.1		P
Iron	61443.54		64513.12		5.0		P
Lead							F
Magnesium	18987.86		19802.12	B	4.3		P
Manganese	2194.82		2293.70		4.5		P
Mercury							CV
Nickel	105.88		130.48	B	23.2		P
Potassium	3628.81	B	5615.55	B	54.7		P
Selenium							F
Silver	2.54	B	9.00	U	100.0		P
Sodium	292.26	B	438.12	B	49.9		P
Thallium							F
Vanadium	93.88		94.92	B	1.1		P
Zinc	409.18		453.32		10.8	E	P

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MEATD7L

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13503.08		13663.42		1.2		P
Antimony	13.00	U	65.00	U			P
Arsenic							F
Barium	165.69	B	172.65	B	4.2		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.90	U	9.50	U			P
Calcium	99429.82		102588.58		3.2		P
Chromium	26.96		27.82	B	3.2		P
Cobalt	10.17	B	21.12	B	107.7		P
Copper	16.44	B	22.10	B	34.4		P
Iron	21184.96		22311.32		5.3		P
Lead							F
Magnesium	51148.82		52718.02		3.1		P
Manganese	1376.26		1440.78		4.7		P
Mercury							CV
Nickel	21.14	B	67.50	U	100.0		P
Potassium	6097.12		6841.40	B	12.2		P
Selenium							F
Silver	1.80	U	9.00	U			P
Sodium	6433.41		6558.85	B	1.9		P
Thallium							F
Vanadium	48.04	B	53.35	B	11.1		P
Zinc	70.84		98.80	B	39.5	E	P

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

ICP ID Number: TJA-1 Date: 04/15/97

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200.0	6.2	P
Antimony	206.80		60.0	13.0	P
Arsenic			10.0		
Barium	493.60		200.0	0.9	P
Beryllium	313.00		5.0	1.0	P
Cadmium	228.80		5.0	1.9	P
Calcium	317.90		5000.0	4.3	P
Chromium	267.70		10.0	2.6	P
Cobalt	228.60		50.0	3.2	P
Copper	324.70		25.0	0.7	P
Iron	259.90		100.0	1.2	P
Lead			3.0		
Magnesium	383.20		5000.0	91.3	P
Manganese	257.60		15.0	0.7	P
Mercury			0.2		
Nickel	231.60		40.0	13.5	P
Potassium	766.50		5000.0	256.9	P
Selenium			5.0		
Silver	328.00		10.0	1.8	P
Sodium	588.90		5000.0	12.1	P
Thallium			10.0		
Vanadium	292.40		50.0	1.4	P
Zinc	213.80		20.0	1.2	P
Cyanide			10.0		

Comments:

25526 00040D

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

ICP ID Number: Date: 07/15/97

Flame AA ID Number:

Furnace AA ID Number: VARIAN-2

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic	193.70	BZ	10.0	0.6	F
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

25526 00040E

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

ICP ID Number: Date: 07/15/97

Flame AA ID Number: VARIAN-3

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70	BD	0.2	0.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

25526 00040F

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

ICP ID Number: Date: 07/15/97

Flame AA ID Number:

Furnace AA ID Number: VARIAN-4

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead	283.30	BZ	3.0	0.6	F
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium	196.00	BZ	5.0	1.3	F
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

25526 000406

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

ICP ID Number: Date: 07/15/97

Flame AA ID Number:

Furnace AA ID Number: VARIAN-5

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium	276.80	BZ	10.0	0.7	F
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

25526 00040H

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

ICP ID Number: Date: 04/15/97

Flame AA ID Number: LACHAT-1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide	570.00		10.0	6.0	AS

Comments:

25526 00040I

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

ICP ID Number: TJA-1' Date: 07/15/97

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony	206.80		60.0	10.8	P
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		
Cyanide			10.0		

Comments:

25526 00041 ~~00040 J~~ GMM 8/18/97

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13
PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
ICV	07/07/97		250
LCSS	07/07/97	5.00	250
MEATD2	07/07/97	5.00	250
MEATD2D	07/07/97	5.00	250
MEATD2S	07/07/97	5.00	250
MEATD3	07/07/97	5.00	250
MEATD5	07/07/97		250
MEATD6	07/07/97		250
MEATD7	07/07/97		250
MEATD7D	07/07/97		250
MEATD7S	07/07/97		250
MEAXC8	07/07/97	5.00	250
MEAXC9	07/07/97	5.00	250
MEAXD0	07/07/97	5.00	250
MEAXG7	07/07/97		250
MEAXG8	07/07/97		250
PBS	07/07/97	5.00	250

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13
PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
ICV2	07/22/97		100
LCSS	07/22/97	0.23	100
MEATD2	07/22/97	0.24	100
MEATD3	07/22/97	0.24	100
MEATD3D	07/22/97	0.23	100
MEATD3S	07/22/97	0.22	100
MEAXC8	07/22/97	0.24	100
MEAXC9	07/22/97	0.22	100
MEAXD0	07/22/97	0.24	100
PBS	07/22/97	0.20	100
S0	07/22/97		100
S0.2	07/22/97		100
S0.5	07/22/97		100
S1	07/22/97		100
S10	07/22/97		100
S5	07/22/97		100

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13
PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Method: F

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	07/09/97	1.00	200
MEATD2	07/09/97	1.00	200
MEATD3	07/09/97	1.00	200
MEATD3D	07/09/97	1.00	200
MEATD3S	07/09/97	1.00	200
MEAXC8	07/09/97	1.00	200
MEAXC9	07/09/97	1.00	200
MEAXD0	07/09/97	1.00	200
PBS	07/09/97	1.00	200

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	07/09/97	1.00	200
MEATD2	07/09/97	1.00	200
MEATD3	07/09/97	1.00	200
MEATD3D	07/09/97	1.00	200
MEATD3S	07/09/97	1.00	200
MEAXC8	07/09/97	1.00	200
MEAXC9	07/09/97	1.00	200
MEAXD0	07/09/97	1.00	200
PBS	07/09/97	1.00	200

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PREPARATION LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135

Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (ml)
LCSS	08/12/97	1.00	200
MEATD2	08/12/97	1.00	200
MEATD3	08/12/97	1.00	200
MEATD3D	08/12/97	1.00	200
MEATD3S	08/12/97	1.00	200
MEAXC8	08/12/97	1.00	200
MEAXC9	08/12/97	1.00	200
MEAXD0	08/12/97	1.00	200
PBS	08/12/97	1.00	200

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: TJA-1 Method: P
Start Date: 07/09/97 End Date: 07/09/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1631		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	1632			X		X		X		X								X	X		X	X				
S	1.00	1634		X				X		X		X	X	X		X	X								X	X	
ICV	1.00	1635		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICB	1.00	1638		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV11	1.00	1640		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB11	1.00	1642		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRII	1.00	1644			X			X	X		X	X	X				X		X			X			X	X	
ICSAI	1.00	1647		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSABI	1.00	1649		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV12	1.00	1653		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB12	1.00	1655		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
[illegible]	1.00	1657		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSW	1.00	1700		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD5	1.00	1703		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD6	1.00	1707		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD7	1.00	1710		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD7D	1.00	1712		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD7S	1.00	1714		X	X		X	X	X		X	X	X	X			X		X			X			X	X	
MEAXG7	1.00	1718		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAXG8	1.00	1720		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD7L	5.00	1722		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV13	1.00	1724		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB13	1.00	1727		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	1729		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	1.00	1731		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD2	1.00	1735		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD3	1.00	1738		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD3D	1.00	1740		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEATD3S	1.00	1742		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRIF1	1.00	1750			X			X	X		X	X	X				X		X			X			X	X	
ICSAF1	1.00	1752		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: TJA-1 Method: P
Start Date: 07/09/97 End Date: 07/09/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICSABF1	1.00	1754		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV14	1.00	1756		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB14	1.00	1758		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAXC8	1.00	1801		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAXC9	1.00	1803		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAXD0	1.00	1805		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MEAXD0L	5.00	1807		X			X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1815																									
ZZZZZZ	1.00	1817																									
ZZZZZZ	1.00	1820																									
ZZZZZZ	1.00	1823																									
ZZZZZZ	1.00	1826																									
ZZZZZZ	1.00	1829																									
CCV15	1.00	1831		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB15	1.00	1833		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1836																									
ZZZZZZ	1.00	1839																									
ZZZZZZ	1.00	1842																									
ZZZZZZ	1.00	1845																									
ZZZZZZ	1.00	1847																									
ZZZZZZ	1.00	1850																									
ZZZZZZ	1.00	1852																									
CRIF2	1.00	1854			X			X	X		X	X	X				X		X			X			X	X	
ICSAF2	1.00	1857		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSABF2	1.00	1859		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV16	1.00	1901		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB16	1.00	1903		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1905																									
ZZZZZZ	1.00	1908																									
ZZZZZZ	1.00	1910																									
ZZZZZZ	1.00	1913																									
CRIF3	1.00	1916			X			X	X		X	X	X				X		X			X			X	X	

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: TJA-1 Method: P
Start Date: 07/09/97 End Date: 07/09/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICSAF3	1.00	1918		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSABF3	1.00	1920		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV17	1.00	1922		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB17	1.00	1924		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-2 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1904				X																					
S10	1.00	1908				X																					
S20	1.00	1912				X																					
S40	1.00	1916				X																					
S60	1.00	1920				X																					
ICV	2.00	1924				X																					
ICB	1.00	1928				X																					
CCV11	1.00	1932				X																					
CCB11	1.00	1936				X																					
CRA	1.00	1940				X																					
PBS	1.00	1944				X																					
PBSA	1.00	1948	103.5			X																					
LCSS	500.00	1952				X																					
LCSSA	500.00	1956	107.0			X																					
MEATD2	1.00	2000				X																					
MEATD2A	1.00	2004	100.0			X																					
MEATD3	1.00	2008				X																					
MEATD3A	1.00	2012	99.0			X																					
CCV12	1.00	2016				X																					
CCB12	1.00	2020				X																					
MEATD3D	1.00	2024				X																					
MEATD3DA	1.00	2028	100.0			X																					
MEATD3S	1.00	2032				X																					
MEAXC8	1.00	2036				X																					
MEAXC8A	1.00	2040	101.0			X																					
MEAXC9	1.00	2044				X																					
MEAXC9A	1.00	2048	98.0			X																					
MEAXD0	1.00	2052				X																					
MEAXD0A	1.00	2056	97.5			X																					
CCV13	1.00	2100				X																					
CCB13	1.00	2104				X																					
PBW	1.00	2108				X																					

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-2 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
PBWA	1.00	2112	106.0			X																					
LCSW	2.00	2116				X																					
LCSWA	2.00	2120	100.5			X																					
MEATD5	1.00	2124				X																					
MEATD5A	1.00	2128	110.5			X																					
MEATD6	1.00	2132				X																					
MEATD6A	1.00	2136	108.5			X																					
CCV14	1.00	2140				X																					
CCB14	1.00	2144				X																					
MEATD7	1.00	2148				X																					
MEATD7A	1.00	2152	109.0			X																					
MEATD7D	1.00	2156				X																					
MEATD7DA	1.00	2200	102.5			X																					
MEATD7S	1.00	2204				X																					
CCV15	1.00	2208				X																					
CCB15	1.00	2212				X																					
ZZZZZZ	1.00	2216																									
MEAXG7	1.00	2220				X																					
MEAXG7A	1.00	2224	78.5			X																					
MEAXG8	1.00	2228				X																					
MEAXG8A	1.00	2232	109.5			X																					
LCSS	250.00	2236				X																					
LCSSA	250.00	2240	108.5			X																					
CCV16	1.00	2244				X																					
CCB16	1.00	2248				X																					
ZZZZZZ	1.00	2250																									
ZZZZZZ	1.00	2252																									
CCV17	1.00	2254				X																					
CCB17	1.00	2256				X																					
MEAXG70	2.00	2258				X																					
MEAXG71	2.00	2300				X																					
MEAXG72	2.00	2302				X																					

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-2 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAXG73	2.00	2304				X																					
CCV18	1.00	2306				X																					
CCB18	1.00	2308				X																					

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0204													X												
S3	1.00	0208													X												
S30	1.00	0212													X												
S40	1.00	0216													X												
S50	1.00	0220													X												
ICV	4.00	0224													X												
ICB	1.00	0228													X												
CCV11	1.00	0232													X												
CCB11	1.00	0236													X												
CRA	1.00	0240													X												
PBS	1.00	0244													X												
PBSA	1.00	0248	110.0												X												
LCS	50.00	0252													X												
LCSSA	50.00	0256	104.5												X												
CCV12	1.00	0300													X												
CCB12	1.00	0304													X												
ZZZZZZ	1.00	0306																									
MEATD2	1.00	0308													X												
MEATD3	1.00	0310													X												
MEAXC8	1.00	0312													X												
MEAXC9	1.00	0314													X												
MEAXD0	1.00	0316													X												
CCV13	1.00	0318													X												
CCB13	1.00	0320													X												
ZZZZZZ	1.00	0324																									
ZZZZZZ	1.00	0328																									
CCV14	1.00	0332													X												
CCB14	1.00	0336													X												
ZZZZZZ	1.00	0340																									
MEATD2	25.00	0344													X												
MEATD2A	25.00	0348	93.0												X												
MEATD3	5.00	0352													X												

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEATD3A	5.00	0356	97.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD3D	5.00	0400		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD3DA	5.00	0404	93.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD3S	5.00	0408		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAXC8	25.00	0412		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAXC8A	25.00	0416	89.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV15	1.00	0420		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB15	1.00	0424		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAXC9	5.00	0428		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAXC9A	5.00	0432	98.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAXD0	5.00	0436		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAXD0A	5.00	0440	95.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBW	1.00	0444		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBWA	1.00	0448	113.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSW	4.00	0452		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSWA	4.00	0456	104.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD5	1.00	0500		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD5A	1.00	0504	-9999.9	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV16	1.00	0508		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB16	1.00	0512		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0516		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0520		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV17	1.00	0524		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB17	1.00	0528		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD6	1.00	0532		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD6A	1.00	0536	-9999.9	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD7	1.00	0540		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD7A	1.00	0544	109.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD7D	1.00	0548		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD7DA	1.00	0552	113.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEATD7S	1.00	0556		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MEAXG7	1.00	0600		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAXG7A	1.00	0604	-9999.9												X												
CCV18	1.00	0608													X												
CCB18	1.00	0612													X												
MEAXG8	1.00	0616													X												
MEAXG8A	1.00	0620	118.5												X												
MEATD5	5.00	0624													X												
MEATD5A	5.00	0628	95.0												X												
CCV19	1.00	0632													X												
CCB19	1.00	0636													X												
ZZZZZZ	1.00	0640																									
MEATD6	5.00	0644													X												
MEATD6A	5.00	0648	92.0												X												
[illegible]XG7	100.00	0652													X												
MEAXG7A	100.00	0656	103.0												X												
CCV110	1.00	0700													X												
CCB110	1.00	0704													X												

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1004																			X						
S5	1.00	1008																			X						
S30	1.00	1012																			X						
S40	1.00	1016																			X						
S50	1.00	1020																			X						
ICV	2.00	1024																			X						
ICB	1.00	1028																			X						
CCV11	1.00	1032																			X						
CCB11	1.00	1036																			X						
CRA	1.00	1040																			X						
PBS	1.00	1044																			X						
PBSA	1.00	1048	111.0																		X						
LCSS	10.00	1052																			X						
LCSSA	10.00	1056	101.0																		X						
PBW	1.00	1100																			X						
PBWA	1.00	1104	108.0																		X						
LCSW	2.00	1108																			X						
LCSWA	2.00	1112	110.0																		X						
CCV12	1.00	1116																			X						
CCB12	1.00	1120																			X						
MEATD2	1.00	1124																			X						
MEATD2A	1.00	1128	53.0																		X						
MEATD3	1.00	1132																			X						
MEATD3A	1.00	1136	97.0																		X						
MEATD3D	1.00	1140																			X						
MEATD3DA	1.00	1144	91.0																		X						
MEATD3S	1.00	1148																			X						
MEAXC8	1.00	1152																			X						
MEAXC8A	1.00	1156	40.0																		X						
CCV13	1.00	1200																			X						
CCB13	1.00	1204																			X						
ZZZZZZ	1.00	1208																									

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAXC9	1.00	1212		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAXC9A	1.00	1216	56.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAXD0	1.00	1220		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAXD0A	1.00	1224	60.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD5	1.00	1228		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD5A	1.00	1232	94.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD6	1.00	1236		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD6A	1.00	1240	91.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV14	1.00	1244		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB14	1.00	1248		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD7	1.00	1252		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD7A	1.00	1256	45.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ATD7D	1.00	1300		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD7DA	1.00	1304	38.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD7S	1.00	1308		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV15	1.00	1312		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB15	1.00	1316		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	1320		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1324		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV16	1.00	1328		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB16	1.00	1332		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAXG7	1.00	1336		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAXG7A	1.00	1340	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAXG8	1.00	1344		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEAXG8A	1.00	1348	106.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD7D	5.00	1352		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MEATD7DA	5.00	1356	98.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV17	1.00	1400		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB17	1.00	1404		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-4 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1420																			X						
S5	1.00	1424																			X						
S30	1.00	1428																			X						
S40	1.00	1432																			X						
S50	1.00	1436																			X						
ICV2	1.00	1440																			X						
ICB2	1.00	1444																			X						
CCV21	1.00	1448																			X						
CCB21	1.00	1452																			X						
CRA2	1.00	1456																			X						
MEAXG7	1.00	1500																			X						
MEAXG7A	1.00	1504	0.0																		X						
MEAXG7	5.00	1508																			X						
MEAXG7A	5.00	1512	0.0																		X						
CCV22	1.00	1516																			X						
CCB22	1.00	1520																			X						

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-5 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1404		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S10	1.00	1408		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S20	1.00	1412		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S40	1.00	1416		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S60	1.00	1420		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICV	4.00	1424		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICB	1.00	1428		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV11	1.00	1432		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB11	1.00	1436		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CRA	1.00	1440		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBS	1.00	1444		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBSA	1.00	1448	105.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSS	10.00	1452		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSSA	10.00	1456	68.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBW	1.00	1500		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBWA	1.00	1504	103.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSW	4.00	1508		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSWA	4.00	1512	96.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV12	1.00	1516		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB12	1.00	1520		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEATD2	1.00	1524		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEATD2A	1.00	1528	55.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEATD3	1.00	1532		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEATD3A	1.00	1536	67.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEATD3D	1.00	1540		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEATD3DA	1.00	1544	72.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEATD3S	1.00	1548		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAXC8	1.00	1552		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAXC8A	1.00	1556	73.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV13	1.00	1600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB13	1.00	1604		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEAXC9	1.00	1608		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-5 Method: F
Start Date: 07/29/97 End Date: 07/29/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MEAXC9A	1.00	1612	63.5																					X			
MEAXD0	1.00	1616																						X			
MEAXD0A	1.00	1620	67.5																					X			
MEATD5	1.00	1624																						X			
MEATD5A	1.00	1628	78.5																					X			
MEATD6	1.00	1632																						X			
MEATD6A	1.00	1636	80.5																					X			
MEATD7	1.00	1640																						X			
MEATD7A	1.00	1644	69.5																					X			
CCV14	1.00	1648																						X			
CCB14	1.00	1652																						X			
MEATD7D	1.00	1656																						X			
MEATD7DA	1.00	1700	74.5																					X			
MEATD7S	1.00	1704																						X			
CCV15	1.00	1708																						X			
CCB15	1.00	1712																						X			
ZZZZZZ	1.00	1716																									
MEAXG7	1.00	1720																						X			
MEAXG7A	1.00	1724	26.0																					X			
MEAXG8	1.00	1728																						X			
MEAXG8A	1.00	1732	111.5																					X			
MEAXG7	5.00	1736																						X			
MEAXG7A	5.00	1740	65.5																					X			
CCV16	1.00	1744																						X			
CCB16	1.00	1748																						X			

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-3 Method: CV
Start Date: 07/22/97 End Date: 07/22/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2039																X									
S0.2	1.00	2040																X									
S0.5	1.00	2041																X									
S1	1.00	2042																X									
S5	1.00	2043																X									
S10	1.00	2044																X									
ICV	1.00	2045																X									
ICB	1.00	2046																X									
CCV11	1.00	2047																X									
CCB11	1.00	2048																X									
CRA	1.00	2049																X									
ZZZZZZ	1.00	2050																									
ZZZZZZ	1.00	2051																									
ZZZZZZ	1.00	2052																									
ZZZZZZ	1.00	2053																									
ZZZZZZ	1.00	2054																									
ZZZZZZ	1.00	2055																									
ZZZZZZ	1.00	2056																									
ZZZZZZ	1.00	2057																									
ZZZZZZ	1.00	2058																									
CCV12	1.00	2059																X									
CCB12	1.00	2100																X									
ZZZZZZ	1.00	2101																									
ZZZZZZ	1.00	2102																									
PBW	1.00	2103																X									
MEATD5	1.00	2104																X									
MEATD6	1.00	2105																X									
MEATD7	1.00	2106																X									
MEATD7D	1.00	2107																X									
MEATD7S	1.00	2108																X									
MEAXG7	1.00	2109																X									
MEAXG8	1.00	2110																X									

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ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-3 Method: CV
Start Date: 07/22/97 End Date: 07/22/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV13	1.00	2111																X									
CCB13	1.00	2112																X									

FORM XIV - IN ILM04.0

25526 00069

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: VARIAN-3 Method: CV
Start Date: 07/22/97 End Date: 07/22/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2226																X									
S0.2	1.00	2227																X									
S0.5	1.00	2228																X									
S0	1.00	2229																X									
S0.2	1.00	2230																X									
S0.5	1.00	2231																X									
S1	1.00	2232																X									
S5	1.00	2233																X									
S10	1.00	2234																X									
ICV2	1.00	2235																X									
ICB2	1.00	2236																X									
CCV21	1.00	2237																X									
[illegible]321	1.00	2238																X									
CRA2	1.00	2239																X									
PBS	1.00	2240																X									
LCSS	10.00	2241																X									
MEATD2	1.00	2242																X									
MEATD3	1.00	2243																X									
MEATD3D	1.00	2245																X									
MEATD3S	1.00	2246																X									
MEAXC8	1.00	2247																X									
MEAXC9	1.00	2249																X									
MEAXD0	1.00	2250																X									
CCV22	1.00	2252																X									
CCB22	1.00	2253																X									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: LACHAT-1 Method: AS
Start Date: 07/08/97 End Date: 07/08/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S200	1.00	0829																									X
S150	1.00	0829																									X
S100	1.00	0830																									X
S50	1.00	0831																									X
S20	1.00	0832																									X
S10	1.00	0832																									X
S0	1.00	0833																									X
ICV	2.00	0834																									X
ICB	1.00	0835																									X
CCV11	1.00	0835																									X
CCB11	1.00	0836																									X
PBS	1.00	0837																									X
LCSW	2.00	0838																									X
ZZZZZZ	1.00	0838																									
ZZZZZZ	1.00	0839																									
MEATD5	1.00	0840																									X
MEATD6	1.00	0841																									X
MEATD7	1.00	0841																									X
MEATD7D	1.00	0842																									X
MEATD7S	1.00	0843																									X
MEAXG7	1.00	0844																									X
CCV12	1.00	0844																									X
CCB12	1.00	0845																									X
MEAXG8	1.00	0846																									X
MEATD2	1.00	0847																									X
MEATD2D	1.00	0847																									X
MEATD2S	1.00	0848																									X
MEATD3	1.00	0849																									X
MEAXC8	1.00	0850																									X
MEAXC9	1.00	0850																									X
MEAXD0	1.00	0851																									X
LCSS	1.00	0852																									X

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: LACHAT-1 Method: AS
Start Date: 07/08/97 End Date: 07/08/97

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	0853																									
CCV13	1.00	0853																									X
CCB13	1.00	0854																									X

FORM XIV - IN

ILM04.0

25526

00072

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COLUMBIA ANALYTICAL SVCS. Contract: 68-D5-0135
Lab Code: COLUMB Case No.: 25526 SAS No.: SDG No.: MEATD2
Instrument ID Number: TJA-1 Method: P
Start Date: 08/13/97 End Date: 08/13/97

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1731			X																						
S	1.00	1733			X																						
S	1.00	1735																									
ICV2	1.00	1736			X																						
ICB2	1.00	1739			X																						
CCV21	1.00	1742			X																						
CCB21	1.00	1744			X																						
CRII2	1.00	1747			X																						
ICSAI2	1.00	1751			X																						
ICSABI2	1.00	1755			X																						
CCV22	1.00	1757			X																						
CCB22	1.00	1759			X																						
PBS	1.00	1802			X																						
LCSS	1.00	1804			X																						
MEATD2	1.00	1813			X																						
MEATD3	1.00	1815			X																						
MEATD3D	1.00	1817			X																						
MEATD3S	1.00	1820			X																						
ZZZZZZ	1.00	1826																									
MEATD3A	1.00	1836			X																						
MEAXC8	1.00	1838			X																						
MEAXC9	1.00	1840			X																						
CCV23	1.00	1843			X																						
CCB23	1.00	1845			X																						
MEAXD0	1.00	1847			X																						
MEAXD0L	5.00	1850			X																						
CRIF4	1.00	1852			X																						
ICSAF4	1.00	1855			X																						
ICSABF4	1.00	1857			X																						
CCV24	1.00	1859			X																						
CCB24	1.00	1901			X																						

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

Case No. 7552

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

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

2. Region No.: V
Sampling Co.: IEPA
4. Date Shipped: 6-25-97
Carrier: Fed Ex
6. Date Received -- Received by: 6/26/97 Mik H
Sampler (Name): Mark Wagner
Airbill Number: 7585698422
Laboratory Contract Number: 68-D5-0135
Unit Price: 70.00
Sampler Signature: Mark W
5. Ship To: Columbia 1317 S 13th Kelso WA ATTN: Eileen Arnold
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI (X), ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEAX67	2	2	G	2		X						149731	G107	6/24/97-1300	5				
"	2	2	G	3			X					149732	G107	"	"				
MEAX68	2	2	G	2		X						149737	G108	6/24/97-1100	13JP6				
"	2	2	G	3			X					149738	G108	"	"				

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
Y	2 of 2			49264

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark W	6-25-97 / 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Mik H CASK	062697 1030		

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to

EPA Form 9110-1

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-14 REV.

365648

EPA United States Environmental Protection Agency Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 25526

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

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

2. Region No. 10 | Sampling Co. IEPA | 4. Date Shipped 6-25-97 | Carrier Fed Ex | 6. Date Received -- Received by: 6/26/97

Sampler (Name): Mark Wagner | Airbill Number 7585698422 | Laboratory Contract Number 68-D5-0135 | Unit Price 70.00

Sampler Signature: [signature] | 5. Ship To: Columbia 1317 S. 13 Ave Kelso WA ATTN: Eileen Arnold | 7. Transfer to: | Date Received

3. Purpose*: Lead [ ] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

Received by | Contract Number | Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEATD5	5	L	G	2		X						149701	G104	6-24-97 9:45	EB3JP2	[illegible]			
"	5	L	G	3			X					149702	G104	"	"	[illegible]			
MEATD6	5	L	G	2		X						149707	G105	"	EB3JP3	[illegible]			
"	5	L	G	3			X					149708	G105	"	"	[illegible]			
MEATD7	5	L	G	2		X						149721	G106	6/24/97 11:00	EB3JP4	[illegible]			
"	5	L	G	3			X					149724	G106	"	"	[illegible]			
"	5	L	G	2		X						149722	G106	"	"	[illegible]			
"	5	L	G	3			X					149725	G106	"	"	[illegible]			
"	5	L	G	2		X						149723	G106	"	"	[illegible]			
"	5	L	G	3			X					149726	G106	"	"	[illegible]			

Shipment for Case Complete? (Y/N) Y | Page 1 of 2 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) 49264, 49265

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	6-25-97 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature]	Date / Time 062697 1030	Remarks Is custody seal intact? Y/N/none	

A21-012-14 REV

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to SMO

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

365650

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

Case No. 25526

00239

SDG # MEATD2 25526

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved	2. Region No.: V	Sampling Co.: IEPA	4. Date Shipped: 6-25-97	Carrier: FedEx
		Sampler (Name): Mark Wagner		Airbill Number: 7585698422	
		Sampler Signature: [signature]		5. Ship To: Columbia 1317 S 13 Kelso WA ATTN: Arnold	
		3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, X SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD			

6. Date Received -- Received by:	
6/26/97 [signature]	
Laboratory Contract Number: 68-D5-0135	Unit Price: 70.00
7. Transfer to:	Date Received
Received by	
Contract Number	Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MEAXC8	5	L	G	6		X	X					149655	X101	6-24-97-1600	EBMH8	[initials]			
MEAXC9	5	L	G	6		X	X					149659	X102	6-24-97-1500	EBMH9	[initials]			
MEAXD0	5	L	G	6		X	X					149663	X103	6-24-97-1500	EBMJ0	[initials]			
MEATD2	5	L	G	6		X	X					149667	X104	6-24-97-1[illegible]	EBMK6	[initials]			
MEATD3	5	L	G	6		X	X					149671	X105	6-24-97-1[illegible]	EBMK7	[initials]			
~~MEATD4~~	~~5~~	~~L~~	~~G~~	~~6~~		~~X~~	~~X~~					~~149675~~	~~X106~~		~~EBMK8~~				
~~MEATE1~~	~~5~~	~~L~~	~~G~~	~~6~~		~~X~~	~~X~~					~~149679~~	~~X107~~		~~EBMK9~~				
~~MEATE2~~	~~5~~	~~L~~	~~G~~	~~6~~		~~X~~	~~X~~					~~149683~~	~~X108~~		~~EBML0~~				
~~MEATE3~~	~~5~~	~~L~~	~~G~~	~~6~~		~~X~~	~~X~~					~~149687~~ PB1	~~X109~~		~~EBML1~~				

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
V	1 of 1			49258, 49259

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	6-26-97 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature] CAS	Date / Time 06 26 97 1030	Remarks Is custody seal intact? Y/N/none	

A21-012-14 REV

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*SEE REVERSE FOR PURPOSE CODE DEFINITION

365649

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: 1K

Case No: 25526 Site Name Location: General Hydraulic

Contractor or EPA Lab: Columbia Data User: IEPA

No. of Samples: 10 Date Sampled or Data Received: Aug 22, 1997

Have Chain-of-Custody records been received? Yes ✓ No ✓
Have traffic reports or packing lists been received? Yes ✓ No _____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No _____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No _____
No of samples claimed: 10 No. of samples received: 10

Received by: Lynette Burnett Date: 8-22-97

Received by LSSS: Lynette Burnett Date: 8-22-97

Review started: 8-25-97 Reviewer Signature: Stephanie N. Tobin

Total time spent on review: 10 hrs Date review completed: 8-29-97

Copied by: Lynette Burnett Date: 9-9-97

Mailed to user by: Lynette Burnett Date: 9-9-97

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

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

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

_____

_____

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on July 28, 1997

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

TO: Data User: IEPA Patricia J Scott for Steve Ostrodka 08/05/97

We have reviewed the data for the following case:

SITE NAME: GENERAL HYDRAULICS (IL)

CASE NUMBER: 25526 SDG NUMBER: EBJN9

Number and Type of Samples: 9 Waters

Sample Numbers: EBJN9, EBJP0 - EBJP7

La ratory: CLAYTON Hrs. for Review: _____

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

Patricia J Scott

CC: Cecilia Luckett Moore
Region 5 TPO
Mail Code: SM-5J

RECEIVED
AUG 21 1997
IEPA/BOL

Case Number : 25526 **SDG Number: EBJN9**
Site Name: GENERAL HYDRAULICS **Laboratory: CLAYTON**

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

Nine (9) preserved water samples, numbered EBJP0 through EBJP7, and EBJN9 were collected on 06/24/97. The lab received the samples on 06/26/97 in good condition. Five (5) samples were analyzed for the full list of organic analytes. Four (4) samples; EBJP0, EBJP1, EBJP7 and EBJN9 were only analyzed for volatile organic analytes. All were analyzed according to CLP SOW OLM03.1 3/90.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: August 1, 1997

Case Number : 25526 **SDG Number: EBJN9**
Si Name: GENERAL HYDRAULICS **Laboratory: CLAYTON**

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone
EBJN9, EBJP0, EBJP1, EBJP2, EBJP3, EBJP4, EBJP4MS, EBJP4MSD, EBJP5, EBJP6, EBJP7, VBLKCG, VHBLK

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2,4-Dinitrophenol, 3,3'-Dichlorobenzidine
EBJP2, EBJP6, SBLKW1GA

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride
VHBLK

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Diethylphthalate
EBJP2, EBJP3, EBJP4, EBJP4MS, EBJP4MSD, EBJP5

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems found for this qualification.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: August 1, 1997

Case Number : 25526 **SDG Number:** EBJN9
Site Name: GENERAL HYDRAULICS **Laboratory:** CLAYTON

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. The presence of these analytes in the unspiked sample is qualified "J" and non-detects are not flagged.

EBJP4MS, EBJP4MSD
4-Nitrophenol, 2,4-Dinitrotoluene

7. FIELD BLANK AND FIELD DUPLICATE

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

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EBJN9, EBJP1, EBJP5
Acetone, Tetrachloroethene

EBJP0
Acetone, 1,1-Dichloroethene, 1,1-Dichloroethane, 1,2-Dichloroethene (total), Tetrachloroethene

EBJP2, EBJP3
Acetone, 1,1-Dichloroethene, 1,2-Dichloroethene (total), Trichloroethene, Tetrachloroethene

EBJP4, EBJP4MS, EBJP4MSD
1,1,1-Trichloroethane

VHBLK
Acetone

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: August 1, 1997

Case Number : 25526 **SDG Number: EBJN9**
Si Name: GENERAL HYDRAULICS **Laboratory: CLAYTON**

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EBJP2, EBJP4, EBJP6
bis(2-Ethylhexyl)phthalate

EBJP3
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

EBJP4MS
Acenaphthylene, bis(2-Ethylhexyl)phthalate

EBJP4MSD
Acenaphthylene

EBJP5
Phenol, bis(2-Ethylhexyl)phthalate

SBLKW1EA, SBLKW1GA
Diethylphthalate

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EBJP4MS
4,4'-DDD, Endosulfan sulfate

EBJP4MSD
4,4'-DDD

EBJP5
Dieldrin

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are flagged "J" and non-detects are not flagged.

EBJP4MS
Endosulfan sulfate

EBJP4MSD
4,4'-DDD, Endosulfan sulfate

EBJP5
Dieldrin, 4,4'-DDD, Endosulfan sulfate

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: August 1, 1997

Case Number : 25526 **SDG Number:** EBJN9
Site Name: GENERAL HYDRAULICS **Laboratory:** CLAYTON

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

Sample EBJP6 and Sample EBJP7 were incorrectly identified as soil/sediment samples on the Organic Traffic Report/Chain-of-Custody Record. They are both groundwater samples.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT
Date: August 1, 1997

CADRE Data Qualifier Sheet

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

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBJN9

Site: GENERAL HYDRAULICS
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBJN9		EBJP0		EBJP1		EBJP2		EBJP3	
REGIONAL SAMPLE NUMBER:										
S[illegible]E LOCATION:	G101		G102		G103		G104		G105	
S[illegible]E TYPE:	Trip Blank		Trip Blank		Trip Blank		Routine Sample		Routine Sample	
MATRIX/ANALYSIS:	Water/Low		Water/Low		Water/Low		Water/Low		Water/Low	
DILUTION FACTOR:	1.0		1.0		1.0		1.0		1.0	
PERCENT MOISTURE:										
VOA										
Chloromethane	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	10	U	10	U	10	U	10	U	10	U
Acetone	7	J	8	J	6	J	6	J	8	J
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	1	J	10	U	2	J	2	J
1,1-Dichloroethane	10	U	5	J	10	U	12		12	
1,2-Dichloroethene (total)	10	U	2	J	10	U	4	J	4	J
Chloroform	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	42		10	U	80		69	
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	2	J	2	J
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
[illegible]achloroethene	2	J	2	J	2	J	3	J	3	J
[illegible]2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Xylene (total)	10	U	10	U	10	U	10	U	10	U

FILE NAME: EBJN9 DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBJN9

Site: GENERAL HYDRAULICS
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBJP4		EBJP4MS		EBJP4MSD		EBJP5		EBJP6	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	G106		G106		G106		G107		G108	
SAMPLE TYPE:	Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS:	Water/Low		Water/Low		Water/Low		Water/Low		Water/Low	
DILUTION FACTOR:	1.0		1.0		1.0		1.0		1.0	
PERCENT MOISTURE:										
VOA										
Chloromethane	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	10	U	10	U	10	U	10	U	10	U
Acetone	10	UJ	12	J	12	J	7	J	11	J
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	41		43		10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethene (total)	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	6	J	6	J	7	J	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	58		60		10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	59		58		10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	5	J	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	59		59		10	U	10	U
Chlorobenzene	10	U	60		58		10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Xylene (total)	10	U	10	U	10	U	10	U	10	U

FILE NAME: EBJN9 DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBJN9

Site: GENERAL HYDRAULICS
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBJP7		VBLKCG		VHBLK			
REGIONAL SAMPLE NUMBER:								
SAMPLE LOCATION:	G109							
SAMPLE TYPE:	Trip Blank		Method Blank		Storage Blank			
MATRIX/ANALYSIS:	Water/Low		Water/Low		Water/Low			
DILUTION FACTOR:	1.0		1.0		1.0			
PERCENT MOISTURE:								
VOA								
Chloromethane	10	U	10	U	10	U		
Bromomethane	10	U	10	U	10	U		
Vinyl Chloride	10	U	10	U	10	U		
Chloroethane	10	U	10	U	10	U		
Methylene Chloride	10	U	10		10	U		
Acetone	10	UJ	10	UJ	9	J		
Carbon Disulfide	10	U	10	U	10	U		
1,1-Dichloroethene	10	U	10	U	10	U		
1,1-Dichloroethane	10	U	10	U	10	U		
1,2-Dichloroethene (total)	10	U	10	U	10	U		
Chloroform	10	U	10	U	10	U		
1,2-Dichloroethane	10	U	10	U	10	U		
2-Butanone	10	U	10	U	10	U		
1,1,1-Trichloroethane	10	U	10	U	10	U		
Carbon Tetrachloride	10	U	10	U	10	U		
Bromodichloromethane	10	U	10	U	10	U		
1,2-Dichloropropane	10	U	10	U	10	U		
cis-1,3-Dichloropropene	10	U	10	U	10	U		
Trichloroethene	10	U	10	U	10	U		
Dibromochloromethane	10	U	10	U	10	U		
1,1,2-Trichloroethane	10	U	10	U	10	U		
Benzene	10	U	10	U	10	U		
trans-1,3-Dichloropropene	10	U	10	U	10	U		
Bromoform	10	U	10	U	10	U		
4-Methyl-2-Pentanone	10	U	10	U	10	U		
2-Hexanone	10	U	10	U	10	U		
Tetrachloroethene	10	U	10	U	10	U		
2,2-Tetrachloroethane	10	U	10	U	10	U		
Toluene	10	U	10	U	10	U		
Chlorobenzene	10	U	10	U	10	U		
Ethylbenzene	10	U	10	U	10	U		
Styrene	10	U	10	U	10	U		
Xylene (total)	10	U	10	U	10	U		

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBJN9

Site: GENERAL HYDRAULICS
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBJP2		EBJP3		EBJP4		EBJP4MS		EBJP4MSD	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	G104		G105		G106		G106		G106	
SAMPLE TYPE:	Routine Sample		Routine Sample		Routine Sample		Matrix Spike		Matrix Spike Dup	
MATRIX/ANALYSIS:	Water/Low		Water/Low		Water/Low		Water/Low		Water/Low	
DILUTION FACTOR:	1.0		1.0		1.0		1.0		1.0	
PERCENT MOISTURE:										
BNA										
Phenol	10	U	10	U	10	U	56		56	
bis(2-Chloroethyl)ether	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	10	U	57		55	
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	24		24	
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	10	U	43		40	
Hexachloroethane	10	U	10	U	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	30		30	
Naphthalene	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	10	U	10	U	67		62	
2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U	25	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	1	J	0.80	J
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Acenaphthene	10	U	10	U	10	U	36		36	
2,4-Dinitrophenol	25	UJ	25	U	25	U	25	U	25	U
4-Nitrophenol	25	U	25	U	25	U	85		83	
Dibenzofuran	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	54		50	
Diethylphthalate	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	25	U	25	U	25	U	25	U	25	U
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U	25	U
N-Nitrosodiphenylamine (1)	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	25	U	25	U	25	U	74		71	
Phenanthrene	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	10	U	0.60	J	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	32		38	
Butylbenzylphthalate	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	UJ	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	0.80	J	0.60	J	1	J	0.60	J	16	
Di-n-octylphthalate	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
Dibenz(a,h)anthracene	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U	10	U

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBJN9

Site: GENERAL HYDRAULICS
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBJP5		EBJP6		SBLKW1EA		SBLKW1GA	
REGIONAL SAMPLE NUMBER:								
SAMPLE LOCATION:	G107		G108					
S E TYPE:	Routine Sample		Routine Sample		Method Blank		Method Blank	
M. ..X/ANALYSIS:	Water/Low		Water/Low		Water/Low		Water/Low	
DILUTION FACTOR:	1.0		1.0		1.0		1.0	
PERCENT MOISTURE:								
BNA								
Phenol	0.70	J	10	U	10	U	10	U
bis(2-Chloroethyl)ether	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	10	U	10	U
Hexachloroethane	10	U	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U
Naphthalene	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	10	U	10	U	10	U
2-Methylnaphthalene	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U
troaniline	25	U	25	U	25	U	25	U
..ethylphthalate	10	U	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U	25	U
Acenaphthene	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	25	U	25	UJ	25	U	25	UJ
4-Nitrophenol	25	U	25	U	25	U	25	U
Dibenzofuran	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	0.60	J	0.60	J
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U
4-Nitroaniline	25	U	25	U	25	U	25	U
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U
N-Nitrosodiphenylamine (1)	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U
Pentachlorophenol	25	U	25	U	25	U	25	U
Phenanthrene	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U	10	U
Di-n-butylphthalate	10	U	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	10	U
Butylbenzylphthalate	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	UJ	10	U	10	UJ
Benzo(a)anthracene	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	3	J	4	J	10	U	10	U
Di-n-octylphthalate	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U
no(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U
..enz(a,h)anthracene	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U

FILE NAME: EBJN9 DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBJN9

Site: GENERAL HYDRAULICS
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBJP2		EBJP3		EBJP4		EBJP4MS		EBJP4MSD	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	G104		G105		G106		G106		G106	
SAMPLE TYPE:	Routine Sample		Routine Sample		Routine Sample		Matrix Spike		Matrix Spike Dup	
MATRIX/ANALYSIS:	Water		Water		Water		Water		Water	
DILUTION FACTOR:	1.0		1.0		1.0		1.0		1.0	
PERCENT MOISTURE:										
PES										
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.370		0.40	
Heptachlor	0.050	U	0.050	U	0.050	U	0.430		0.410	
Aldrin	0.050	U	0.050	U	0.050	U	0.420		0.370	
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.990		1.0	
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	1.1		1.2	
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.042	J	0.039	J
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.091	J	0.150	J
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.860		0.680	
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

FILE NAME: EBJN9 DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBJN9

Site: GENERAL HYDRAULICS
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBJP5		EBJP6		PBLKW1					
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	G107		G108							
E TYPE:	Routine Sample		Routine Sample		Method Blank					
M. .IX/ANALYSIS:	Water		Water		Water					
DILUTION FACTOR:	1.0		1.0		1.0					
PERCENT MOISTURE:										
PES										
alpha-BHC	0.050	U	0.050	U	0.050	U				
beta-BHC	0.050	U	0.050	U	0.050	U				
delta-BHC	0.050	U	0.050	U	0.050	U				
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U				
Heptachlor	0.050	U	0.050	U	0.050	U				
Aldrin	0.084		0.050	U	0.050	U				
Heptachlor epoxide	0.050	U	0.050	U	0.050	U				
Endosulfan I	0.050	U	0.050	U	0.050	U				
Dieldrin	0.054	J	0.10	U	0.10	U				
4,4'-DDE	0.30		0.10	U	0.10	U				
Endrin	0.10	U	0.10	U	0.10	U				
Endosulfan II	0.10	U	0.10	U	0.10	U				
4,4'-DDD	0.360	J	0.10	U	0.10	U				
Endosulfan sulfate	0.120	J	0.10	U	0.10	U				
4,4'-DDT	0.410		0.10	U	0.10	U				
Methoxychlor	0.50	U	0.50	U	0.50	U				
Endrin ketone	0.10	U	0.10	U	0.10	U				
Endrin aldehyde	0.10	U	0.10	U	0.10	U				
alpha-Chlordane	0.050	U	0.050	U	0.050	U				
gamma-Chlordane	0.050	U	0.050	U	0.050	U				
Toxaphene	5.0	U	5.0	U	5.0	U				
Aroclor-1016	1.0	U	1.0	U	1.0	U				
Aroclor-1221	2.0	U	2.0	U	2.0	U				
Aroclor-1232	1.0	U	1.0	U	1.0	U				
Aroclor-1242	1.0	U	1.0	U	1.0	U				
Aroclor-1248	1.0	U	1.0	U	1.0	U				
A-.clor-1254	1.0	U	1.0	U	1.0	U				
lor-1260	1.0	U	1.0	U	1.0	U				

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

Volatile Analysis Data - VBLKCG
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	TRIMETHYLSILYLOXIME,TRIMETHY	17.69	41.000	J
3789-85-3	BENZOIC ACID, 2-[(TRIMETHYLS	20.28	11.000	JN
629-59-4	TETRADECANE	21.08	9.000	JN

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 1

Volatile Analysis Data - EBJP0
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	1,2-BIS(.GAMMA.-TRIMETHYLSIL	17.79	4.000	J
75-76-3	SILANE, TETRAMETHYL-	20.27	2.000	JN
	UNKNOWN	21.08	7.000	J
18294-04-7	ETHANEDIOIC ACID, BIS(TRIMET	22.16	10.000	JN

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 2

Volatile Analysis Data - EBJP1
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	21.11	6.000	J
	COLUMN BLEED	22.13	12.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 3

Volatile Analysis Data - EBJP2
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN HYDROCARBON	21.14	6.000	J
	COLUMN BLEED	22.15	12.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 4

Volatile Analysis Data - EBJP3
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
3913-02-8	1-OCTANOL, 2-BUTYL-	21.08	6.000	JN
	COLUMN BLEED	22.12	11.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 5

Volatile Analysis Data - EBJP4
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	21.07	7.000	J
	COLUMN BLEED	22.09	10.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 6

Volatile Analysis Data - EBJP5
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	21.06	5.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 7

Volatile Analysis Data - EBJP6
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	21.08	6.000	J
	COLUMN BLEED	22.07	7.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 8

Volatile Analysis Data - EBJP7
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 9

Volatile Analysis Data - EBJN9
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	21.01	6.000	J
	COLUMN BLEED	22.03	5.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 10

Volatile Analysis Data - VHBLK
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	20.97	3.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 11

Semivolatile Analysis Data - SBLKW1EA
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
286-20-4	7-OXABICYCLO[4.1.0]HEPTANE	6.41	7.000	JN
931-17-9	1,2-CYCLOHEXANEDIOL	9.05	2.000	JN

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 12

Semivolatile Analysis Data - EBJP3
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	1ST PEAK IN FYROL PCF	20.36	3.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 13

Semivolatile Analysis Data - EBJP4
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBJN9

LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
930-68-7	2-CYCLOHEXEN-1-ONE	7.42	2.000	JN
142-62-1	HEXANOIC ACID	7.62	2.000	JN
140-66-9	PHENOL, 4-(1,1,3,3-TETRAMETH	18.57	4.000	JN
	1ST PEAK IN FYROL PCF	20.37	76.000	J
	2ND PEAK IN FYROL PCF	20.47	24.000	J
	UNKNOWN ALCOHOL	24.72	3.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 14

Semivolatile Analysis Data - EBJP5
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBJN9

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
108-[illegible]0	CYCLOHEXANOL	6.73	9.000	JN
930-68-7	2-CYCLOHEXEN-1-ONE	7.41	2.000	JN
142-62-1	HEXANOIC ACID	7.65	5.000	JN
149-57-5	HEXANOIC ACID, 2-ETHYL-	9.49	5.000	JN
105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	12.79	8.000	JN
85-44-9	1,3-ISOBENZOFURANDIONE	14.48	5.000	JN
50-30-6	BENZOIC ACID, 2,6-DICHLORO-	17.43	16.000	JN
	UNKNOWN	23.24	8.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 15

Semivolatile Analysis Data - SBLKW1GA
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBJN9

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
286-20-4	7-OXABICYCLO[4.1.0]HEPTANE	5.09	4.000	JN

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 16

Semivolatile Analysis Data - EBJP6
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBJN9

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
68-12-2	FORMAMIDE, N,N-DIMETHYL-	3.48	11.000	JN
541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	3.89	2.000	JN
108-93-0	CYCLOHEXANOL	5.42	3.000	JN
931-17-9	1,2-CYCLOHEXANEDIOL	7.95	2.000	JN

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 17

Semivolatile Analysis Data - EBJP2
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBJN9

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	1ST PEAK IN FYROL PCF	19.63	4.000	J
	UNKNOWN	21.87	4.000	J
55956-25-7	2-PROPANOL, 1-[1-METHYL-2-(2	22.19	8.000	JN
20324-34-9	2,5,8,11-TETRAOXATETRADECAN-	23.74	7.000	JN
55956-25-7	2-PROPANOL, 1-[1-METHYL-2-(2	24.19	10.000	JN
	UNKNOWN ALCOHOL	26.19	3.000	J
	UNKNOWN ALCOHOL	26.89	3.000	J

FILE NAME: EBJN9.SDG DATE: 07/31/97 TIME: 11:59 CADRE 2.3.1 PAGE: 18

Missing Contents Error Report

SDG NO: EBJN9
CASE NO: 25526

LABORATORY: CLAYTON NOVI
AGENCY INPUT FILE: EBJN9.OAS

FIELD DESCRIPTION	CADRE KEY		
Analysis Time	Record Type 20	Line 3015	Format HH:MM
Sulfur Cleanup	Record Type 27	Line 3371	Format RANGE
Analysis Time	Record Type 20	Line 3900	Format HH:MM
Sulfur Cleanup	Record Type 27	Line 4256	Format RANGE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: August 1, 1997

SUBJECT: Review of Data
Received for Review on July 30, 1997

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

TO: Data User: IEPA Patricia J Scott for Steve Ostrodka 08/05/97

We have reviewed the data for the following case:

SITE NAME: General Hydraulics

CASE NUMBER: 25526 SDG NUMBER: EBMH8

Number and Type of Samples: 5 soil samples

Sample Numbers: EBMH8-9, EBMJ0, EBMK6-7

I ›ratory: Clayton Hrs. for Review:

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

Patricia J Scott

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

RECEIVED
AUG 21 1997
IEPA/BOL

Case Number : 25526 **SDG Number: EBMH8**
Site Name: General Hydraulics (IL) **Laboratory: Clayton**

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

Five soil samples, numbered EBMH8-9, EBMJ0, EBMK6-7 were collected on 06/24/97. The lab received the samples on 06/26/97 in good condition. All samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW OLMO3.1 3/90.

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: August 1, 1997

Case Number : 25526
Site Name: General Hydraulics (IL)

SDG Number: EBMH8
Laboratory: Clayton

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone
EBMH8, EBMH8MS, EBMH8MSD, EBMH9, EBMJ0, EBMK6
EBMK7, VBLKBA, VBLKBZ, VHBLK

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Methylene Chloride, Acetone, Carbon Disulfide
EBMH8, EBMH8MS, EBMH8MSD, EBMH9, EBMJ0, EBMK6
EBMK7, VBLKBA, VBLKBZ, VHBLK

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

2,4-Dinitrophenol
EBMH8, EBMH8MS, SBLKS1

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2-Methylphenol, 4-Methylphenol, 2-Nitroaniline
EBMH8, EBMH8MS, SBLKS1

4. METHOD BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are biased high and qualified "U" and non-detects are not flagged.

Methylene Chloride
EBMH8, EBMH8MS, EBMH8MSD, EBMH9, EBMJ0, EBMK6
EBMK7

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: August 1, 1997

Case Number : 25526 **SDG Number: EBMH8**
Site Name: General Hydraulics (IL) **Laboratory: Clayton**

Acetone
EBMH8, EBMH8MS, EBMH9, EBMJ0

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

EBMH8, EBMH8MS, EBMH8MSD, EBMH9, EBMJ0, EBMK6, EBMK7
Carbon Disulfide

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Acetone
EBMH8MSD, EBMK6

The following semivolatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" and non-detects are not flagged.

EBMH8MS
bis(2-Ethylhexyl)phthalate

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate
EBMH8, EBMH8MSD, EBMH9, EBMJ0, EBMK6, EBMK7

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following diluted pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits and non-detects are not flagged.

EBMH8DL, EBMH9DL, EBMJ0DL, EBMK6DL

The following diluted pesticide samples have surrogate percent recoveries which were below 10% limit. Hits and non-detects are not flagged.

EBMH8DL, EBMH9DL, EBMJ0DL, EBMK6DL

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: August 1, 1997

Case Number : 25526
Site Name: General Hydraulics (IL)

SDG Number: EBMH8
Laboratory: Clayton

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery above the criteria but less than 100%. Hits and non-detects are not flagged for the unspiked sample.

EBMH8MS
2,4-Dinitrotoluene

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are not flagged for the unspiked sample.

EBMH8MS, EBMH8MSD
Dieldrin, 4,4'-DDT

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are qualified "R".

EBMH8MS, EBMH8MSD
Aldrin

The following pesticide matrix spike/matrix spike duplicate samples have the RPD outside criteria. Hits and non-detects are qualified above.

EBMH8MS, EBMH8MSD
Aldrin

7. FIELD BLANK AND FIELD DUPLICATE

None of the samples in this dataset are field blanks or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms, it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EBMH9
Tetrachloroethene

EBMJ0
Trichloroethene

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: August 1, 1997

Case Number : 25526 **SDG Number: EBMH8**
Site Name: General Hydraulics (IL) **Laboratory: Clayton**

EBMK6
1,1,1-Trichloroethane, Tetrachloroethene

VBLKBA
Methylene Chloride, Carbon Disulfide

VBLKBZ
Carbon Disulfide

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EBMH8
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene
4-Nitroaniline, Phenanthrene, Anthracene, Carbazole
Butylbenzylphthalate

EBMH8MS
Naphthalene, Phenanthrene, Anthracene, Carbazole
Di-n-butylphthalate

EBMH8MSD
Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Phenanthrene
Anthracene, Carbazole

EBMH9
Fluorene, Anthracene, Carbazole, Indeno(1,2,3-cd)pyrene,
Benzo(g,h,i)perylene

EBMJ0
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene,
Chrysene, Di-n-octylphthalate, Benzo(b)fluoranthene,
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EBMK6
Naphthalene, 2-Methylnaphthalene, Acenaphthene, Fluorene,
Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate,
Benzo(a)anthracene, Benzo(k)fluoranthene, Benzo(a)pyrene,
Indeno(1,2,3-cd)pyrene

EBMK7
Naphthalene, 2-Methylnaphthalene, Phenanthrene, Fluoranthene,
Pyrene, Benzo(a)anthracene, Benzo(k)fluoranthene,
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EBMH8
Endosulfan I, alpha-Chlordane

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: August 1, 1997

Case Number : 25526 **SDG Number: EBMH8**
Site Name: General Hydraulics (IL) **Laboratory: Clayton**

EBMH8MS
Heptachlor epoxide, Endosulfan I, Endosulfan sulfate, alpha-Chlordane

EBMH8MSD
gamma-BHC (Lindane), Heptachlor epoxide, Endosulfan I, Endosulfan sulfate, alpha-Chlordane

EBMH9DL, EBMJ0DL
4,4'-DDE

EBMK6
Heptachlor epoxide

EBMK6DL
4,4'-DDE, 4,4'-DDD

EBMK7
Heptachlor, Heptachlor epoxide, 4,4'-DDT

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are flagged "J" or "U" and non-detects are not flagged.

EBMH8, EBMH8DL, EBMH9DL, EBMJ0DL
4,4'-DDD

EBMH8MS
gamma-BHC (Lindane), Aldrin, Heptachlor epoxide, Endosulfan I Endrin, 4,4'-DDD, Endosulfan sulfate

EBMH8MSD
gamma-BHC (Lindane), Heptachlor epoxide, Endrin, 4,4'-DDD Endosulfan sulfate, alpha-Chlordane

EBMK6
Heptachlor epoxide, 4,4'-DDD

EBMK6DL
4,4'-DDD, 4,4'-DDT

EBMK7
Heptachlor epoxide, 4,4'-DDT

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

The results of Aldrin, DDE, DDT for sample EBMH8; DDD and DDT for samples

Case Number : 25526 **SDG Number: EBMH8**
Site Name: General Hydraulics (IL) **Laboratory: Clayton**

EBMH9 and EBMJ0 were quantitated outside the calibration range. For the analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration. EBMK6DL was diluted further at 1:50 dilution due to interference and its results should be used for data validation.

Not enough information was entered for the Pest/PCB fraction for the electronic file such as: percent resolution for INDA and INDB standards, retention time and calibration factors for INDA standard of the initial calibration, all information of multicomponent analytes for the initial calibration, incorrectly calculated amount units were entered for the PEM, INDA and INDB standards.

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: August 1, 1997

CADRE Data Qualifier Sheet

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

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBMH8

Site: General Hydraulics (IL)
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBMH8		EBMH8MS		EBMH8MSD		EBMH9		EBMJ0	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	X101		X101		X101		X102		X103	
SAMPLE TYPE:	Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR:	1.0		1.0		1.0		1.0		1.0	
PERCENT MOISTURE:	22		22		22		32		28	
VOA										
Chloromethane	13	U	13	U	13	U	15	U	14	U
Bromomethane	13	U	13	U	13	U	15	U	14	U
Vinyl Chloride	13	U	13	U	13	U	15	U	14	U
Chloroethane	13	U	13	U	13	U	15	U	14	U
Methylene Chloride	25	UJ	15	UJ	15	UJ	26	UJ	14	UJ
Acetone	14	UJ	16	UJ	13	UJ	110	UJ	17	UJ
Carbon Disulfide	13	UJ	13	UJ	13	UJ	15	UJ	14	UJ
1,1-Dichloroethene	13	U	57		58		15	U	14	U
1,1-Dichloroethane	13	U	13	U	13	U	15	U	14	U
1,2-Dichloroethene (total)	13	U	13	U	13	U	15	U	14	U
Chloroform	13	U	13	U	13	U	15	U	14	U
1,2-Dichloroethane	13	U	13	U	13	U	15	U	14	U
2-Butanone	13	U	13	U	13	U	27		14	U
1,1,1-Trichloroethane	13	U	13	U	13	U	15	U	14	U
Carbon Tetrachloride	13	U	13	U	13	U	15	U	14	U
Bromodichloromethane	13	U	13	U	13	U	15	U	14	U
1,2-Dichloropropane	13	U	13	U	13	U	15	U	14	U
cis-1,3-Dichloropropene	13	U	13	U	13	U	15	U	14	U
Trichloroethene	13	U	58		62		15	U	2	J
Dibromochloromethane	13	U	13	U	13	U	15	U	14	U
1,1,2-Trichloroethane	13	U	13	U	13	U	15	U	14	U
Benzene	13	U	68		72		15	U	14	U
trans-1,3-Dichloropropene	13	U	13	U	13	U	15	U	14	U
Bromoform	13	U	13	U	13	U	15	U	14	U
4-Methyl-2-Pentanone	13	U	13	U	13	U	15	U	14	U
2-Hexanone	13	U	13	U	13	U	15	U	14	U
Tetrachloroethene	13	U	13	U	13	U	2	J	14	U
1,1,2,2-Tetrachloroethane	13	U	13	U	13	U	15	U	14	U
Toluene	13	U	68		68		15	U	14	U
Chlorobenzene	13	U	63		66		15	U	14	U
Ethylbenzene	13	U	13	U	13	U	15	U	14	U
Styrene	13	U	13	U	13	U	15	U	14	U
Xylene (total)	13	U	13	U	13	U	15	U	14	U

FILE NAME: EBMH8 DATE: 08/01/97 TIME: 12:21 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBMH8

Site: General Hydraulics (IL)
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBMK6		EBMK7		VBLKBA		VBLKBZ		VHBLK	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	X104		X105							
LE TYPE:	Routine Sample		Routine Sample		Method Blank		Method Blank		Storage Blank	
MATRIX/ANALYSIS:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR:	1.0		1.0		1.0		1.0		1.0	
PERCENT MOISTURE:	18		6		0		0		0	
VOA										
Chloromethane	12	U	11	U	10	U	10	U	10	U
Bromomethane	12	U	11	U	10	U	10	U	10	U
Vinyl Chloride	12	U	11	U	10	U	10	U	10	U
Chloroethane	12	U	11	U	10	U	10	U	10	U
Methylene Chloride	16	UJ	15	UJ	9	J	15	J	10	UJ
Acetone	12	UJ	11	UJ	16	J	11	J	10	UJ
Carbon Disulfide	12	UJ	11	UJ	4	J	6	J	10	UJ
1,1-Dichloroethene	12	U	11	U	10	U	10	U	10	U
1,1-Dichloroethane	12	U	11	U	10	U	10	U	10	U
1,2-Dichloroethene (total)	12	U	11	U	10	U	10	U	10	U
Chloroform	12	U	11	U	10	U	10	U	10	U
1,2-Dichloroethane	12	U	11	U	10	U	10	U	10	U
2-Butanone	12	U	11	U	10	U	10	U	10	U
1,1,1-Trichloroethane	3	J	11	U	10	U	10	U	10	U
Carbon Tetrachloride	12	U	11	U	10	U	10	U	10	U
Bromodichloromethane	12	U	11	U	10	U	10	U	10	U
1,2-Dichloropropane	12	U	11	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	12	U	11	U	10	U	10	U	10	U
Trichloroethene	12	U	11	U	10	U	10	U	10	U
Dibromochloromethane	12	U	11	U	10	U	10	U	10	U
1,1,2-Trichloroethane	12	U	11	U	10	U	10	U	10	U
Benzene	12	U	11	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	12	U	11	U	10	U	10	U	10	U
Bromoform	12	U	11	U	10	U	10	U	10	U
4-Methyl-2-Pentanone	12	U	11	U	10	U	10	U	10	U
2-Hexanone	12	U	11	U	10	U	10	U	10	U
Tetrachloroethene	4	J	11	U	10	U	10	U	10	U
1,2,2-Tetrachloroethane	12	U	11	U	10	U	10	U	10	U
Toluene	12	U	11	U	10	U	10	U	10	U
Chlorobenzene	12	U	11	U	10	U	10	U	10	U
Ethylbenzene	12	U	11	U	10	U	10	U	10	U
Styrene	12	U	11	U	10	U	10	U	10	U
Xylene (total)	12	U	11	U	10	U	10	U	10	U

FILE NAME: EBMH8 DATE: 08/01/97 TIME: 12:21 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBMH8

Site: General Hydraulics (IL)
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBMH8		EBMH8MS		EBMH8MSD		EBMH9		EBMJ0	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	X101		X101		X101		X102		X103	
SAMPLE TYPE:	Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample		Routine Sample	
MATRIX/ANALYSIS:	Soil/Low		Soil/Low		Soil/Low		Soil/Low		Soil/Low	
DILUTION FACTOR:	1.0		1.0		1.0		1.0		1.0	
PERCENT MOISTURE:	10		10		10		21		21	
BNA										
Phenol	370	U	2300		2200		420	U	420	U
bis(2-Chloroethyl)ether	370	U	370	U	370	U	420	U	420	U
2-Chlorophenol	370	U	2300		2000		420	U	420	U
1,3-Dichlorobenzene	370	U	370	U	370	U	420	U	420	U
1,4-Dichlorobenzene	370	U	1200		1200		420	U	420	U
1,2-Dichlorobenzene	370	U	370	U	370	U	420	U	420	U
2-Methylphenol	370	UJ	370	UJ	370	U	420	U	420	U
2,2'-oxybis(1-Chloropropane)	370	U	370	U	370	U	420	U	420	U
4-Methylphenol	370	UJ	370	UJ	370	U	420	U	420	U
N-Nitroso-di-n-propylamine	370	U	1500		1400		420	U	420	U
Hexachloroethane	370	U	370	U	370	U	420	U	420	U
Nitrobenzene	370	U	370	U	370	U	420	U	420	U
Isophorone	370	U	370	U	370	U	420	U	420	U
2-Nitrophenol	370	U	370	U	370	U	420	U	420	U
2,4-Dimethylphenol	370	U	370	U	370	U	420	U	420	U
bis(2-Chloroethoxy)methane	370	U	370	U	370	U	420	U	420	U
2,4-Dichlorophenol	370	U	370	U	370	U	420	U	420	U
1,2,4-Trichlorobenzene	370	U	1400		1400		420	U	420	U
Naphthalene	24	J	31	J	24	J	420	U	420	U
4-Chloroaniline	370	U	370	U	370	U	420	U	420	U
Hexachlorobutadiene	370	U	370	U	370	U	420	U	420	U
4-Chloro-3-methylphenol	370	U	2600		2600		420	U	420	U
2-Methylnaphthalene	22	J	370	U	26	J	420	U	420	U
Hexachlorocyclopentadiene	370	U	370	U	370	U	420	U	420	U
2,4,6-Trichlorophenol	370	U	370	U	370	U	420	U	420	U
2,4,5-Trichlorophenol	920	U	920	U	920	U	1000	U	1000	U
2-Chloronaphthalene	370	U	370	U	370	U	420	U	420	U
2-Nitroaniline	920	UJ	920	UJ	920	U	1000	U	1000	U
Dimethylphthalate	370	U	370	U	370	U	420	U	420	U
Acenaphthylene	27	J	370	U	23	J	420	U	420	U
2,6-Dinitrotoluene	370	U	370	U	370	U	420	U	420	U
3-Nitroaniline	920	U	920	U	920	U	1000	U	1000	U
Acenaphthene	27	J	1500		1600		420	U	420	U
2,4-Dinitrophenol	920	UJ	920	UJ	920	U	1000	U	1000	U
4-Nitrophenol	920	U	3100		2900		1000	U	1000	U
Dibenzofuran	370	U	370	U	370	U	420	U	420	U
2,4-Dinitrotoluene	370	U	1800		1700		420	U	420	U
Diethylphthalate	370	U	370	U	370	U	420	U	420	U
4-Chlorophenyl-phenylether	370	U	370	U	370	U	420	U	420	U
Fluorene	370	U	370	U	370	U	27	J	420	U
4-Nitroaniline	28	J	920	U	920	U	1000	U	1000	U
4,6-Dinitro-2-methylphenol	920	U	920	U	920	U	1000	U	1000	U
N-Nitrosodiphenylamine (1)	370	U	370	U	370	U	420	U	420	U
4-Bromophenyl-phenylether	370	U	370	U	370	U	420	U	420	U
Hexachlorobenzene	370	U	370	U	370	U	420	U	420	U
Pentachlorophenol	920	U	1900		2600		1000	U	1000	U
Phenanthrene	330	J	300	J	230	J	700		78	J
Anthracene	79	J	73	J	54	J	140	J	420	U
Carbazole	40	J	41	J	31	J	69	J	420	U
Di-n-butylphthalate	1100		43	J	370	U	420	U	420	U
Fluoranthene	960		1000		830		1500		160	J
Pyrene	940		2700		2500		1200		140	J
Butylbenzylphthalate	47	J	370	U	370	U	420	U	420	U
3,3'-Dichlorobenzidine	370	U	370	U	370	U	420	U	420	U
Benzo(a)anthracene	920		1000		880		670		110	J
Chrysene	1300		1500		1300		720		120	J
bis(2-Ethylhexyl)phthalate	370	U	400	U	370	U	420	U	420	U
Di-n-octylphthalate	370	U	370	U	370	U	420	U	53	J
Benzo(b)fluoranthene	1900		2200		2000		600		140	J
Benzo(k)fluoranthene	1400		1500		1400		540		110	J
Benzo(a)pyrene	1600		1800		1500		580		110	J
Indeno(1,2,3-cd)pyrene	1600		1900		1700		350	J	100	J
Dibenz(a,h)anthracene	370	U	370	U	370	U	420	U	43	J
Benzo(g,h,i)perylene	1700		2100		1500		310	J	80	J

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBMH8

Site: General Hydraulics (IL)
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBMK6		EBMK7		SBLKS1					
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	X104		X105							
LE TYPE:	Routine Sample		Routine Sample		Method Blank					
...RIX/ANALYSIS:	Soil/Low		Soil/Low		Soil/Low					
DILUTION FACTOR:	1.0		1.0		1.0					
PERCENT MOISTURE:	16		6		0					
BNA										
Phenol	390	U	350	U	330	U				
bis(2-Chloroethyl)ether	390	U	350	U	330	U				
2-Chlorophenol	390	U	350	U	330	U				
1,3-Dichlorobenzene	390	U	350	U	330	U				
1,4-Dichlorobenzene	390	U	350	U	330	U				
1,2-Dichlorobenzene	390	U	350	U	330	U				
2-Methylphenol	390	U	350	U	330	UJ				
2,2'-oxybis(1-Chloropropane)	390	U	350	U	330	U				
4-Methylphenol	390	U	350	U	330	UJ				
N-Nitroso-di-n-propylamine	390	U	350	U	330	U				
Hexachloroethane	390	U	350	U	330	U				
Nitrobenzene	390	U	350	U	330	U				
Isophorone	390	U	350	U	330	U				
2-Nitrophenol	390	U	350	U	330	U				
2,4-Dimethylphenol	390	U	350	U	330	U				
bis(2-Chloroethoxy)methane	390	U	350	U	330	U				
2,4-Dichlorophenol	390	U	350	U	330	U				
1,2,4-Trichlorobenzene	390	U	350	U	330	U				
Naphthalene	35	J	26	J	330	U				
4-Chloroaniline	390	U	350	U	330	U				
Hexachlorobutadiene	390	U	350	U	330	U				
4-Chloro-3-methylphenol	390	U	350	U	330	U				
2-Methylnaphthalene	36	J	27	J	330	U				
Hexachlorocyclopentadiene	390	U	350	U	330	U				
2,4,6-Trichlorophenol	390	U	350	U	330	U				
2,4,5-Trichlorophenol	990	U	880	U	830	U				
2-Chloronaphthalene	390	U	350	U	330	U				
itroaniline	990	U	880	U	830	UJ				
...methylphthalate	390	U	350	U	330	U				
Acenaphthylene	390	U	350	U	330	U				
2,6-Dinitrotoluene	390	U	350	U	330	U				
3-Nitroaniline	990	U	880	U	830	U				
Acenaphthene	24	J	350	U	330	U				
2,4-Dinitrophenol	990	U	880	U	830	UJ				
4-Nitrophenol	990	U	880	U	830	U				
Dibenzofuran	390	U	350	U	330	U				
2,4-Dinitrotoluene	390	U	350	U	330	U				
Diethylphthalate	390	U	350	U	330	U				
4-Chlorophenyl-phenylether	390	U	350	U	330	U				
Fluorene	20	J	350	U	330	U				
4-Nitroaniline	990	U	880	U	830	U				
4,6-Dinitro-2-methylphenol	990	U	880	U	830	U				
N-Nitrosodiphenylamine (1)	390	U	350	U	330	U				
4-Bromophenyl-phenylether	390	U	350	U	330	U				
Hexachlorobenzene	390	U	350	U	330	U				
Pentachlorophenol	990	U	880	U	830	U				
Phenanthrene	290	J	110	J	330	U				
Anthracene	49	J	350	U	330	U				
Carbazole	31	J	350	U	330	U				
Di-n-butylphthalate	20	J	350	U	330	U				
Fluoranthene	500		220	J	330	U				
Pyrene	420		170	J	330	U				
Butylbenzylphthalate	390	U	350	U	330	U				
3,3'-Dichlorobenzidine	390	U	350	U	330	U				
Benzo(a)anthracene	280	J	180	J	330	U				
Chrysene	400		350		330	U				
bis(2-Ethylhexyl)phthalate	390	U	350	U	410					
Di-n-octylphthalate	390	U	350	U	330	U				
Benzo(b)fluoranthene	440		420		330	U				
Benzo(k)fluoranthene	360	J	250	J	330	U				
Benzo(a)pyrene	350	J	180	J	330	U				
eno(1,2,3-cd)pyrene	380	J	210	J	330	U				
enz(a,h)anthracene	390	U	350	U	330	U				
Benzo(g,h,i)perylene	410		230	J	330	U				

FILE NAME: EBMH8 DATE: 08/01/97 TIME: 12:21 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBMH8

Site: General Hydraulics (IL)
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBMH8		EBMH8DL		EBMH8MS		EBMH8MSD		EBMH9	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	X101		X101		X101		X101		X102	
SAMPLE TYPE:	Routine Sample		Routine Sample		Matrix Spike		Matrix Spike Dup		Routine Sample	
MATRIX/ANALYSIS:	Soil		Soil		Soil		Soil		Soil	
DILUTION FACTOR:	5.0		50.0		5.0		5.0		5.0	
PERCENT MOISTURE:	10		10		10		10		21	
PES										
alpha-BHC	9.4	U	94	U	9.4	U	9.4	U	11	U
beta-BHC	9.4	U	94	U	9.4	U	9.4	U	11	U
delta-BHC	9.4	U	94	U	9.4	U	9.4	U	11	U
gamma-BHC (Lindane)	9.4	U	94	U	9.4	J	9.3	J	11	U
Heptachlor	9.4	U	94	U	12		12		11	U
Aldrin	650	J	730		42	J	72		11	U
Heptachlor epoxide	9.4	U	94	U	2.7	J	4.2	J	11	U
Endosulfan I	4.3	J	94	U	4.6	J	4.2	J	11	U
Dieldrin	280	J	320		440		440		21	U
4,4'-DDE	370		430		490		480		110	
Endrin	18	U	180	U	25	J	24	J	21	U
Endosulfan II	18	U	180	U	18	U	18	U	21	U
4,4'-DDD	84	J	210	J	94	J	92	J	580	
Endosulfan sulfate	18	U	180	U	3.1	J	3.2	J	21	U
4,4'-DDT	680	J	550		750		750		560	
Methoxychlor	94	U	940	U	94	U	94	U	110	U
Endrin ketone	18	U	180	U	18	U	18	U	21	U
Endrin aldehyde	18	U	180	U	18	U	18	U	21	U
alpha-Chlordane	3.9	J	94	U	3.6	J	2.4	J	11	U
gamma-Chlordane	9.4	U	94	U	9.4	U	9.4	U	11	U
Toxaphene	940	U	9400	U	940	U	940	U	1100	U
Aroclor-1016	180	U	1800	U	180	U	180	U	210	U
Aroclor-1221	370	U	3700	U	370	U	370	U	420	U
Aroclor-1232	180	U	1800	U	180	U	180	U	210	U
Aroclor-1242	180	U	1800	U	180	U	180	U	210	U
Aroclor-1248	180	U	1800	U	180	U	180	U	210	U
Aroclor-1254	180	U	1800	U	180	U	180	U	210	U
Aroclor-1260	180	U	1800	U	180	U	180	U	210	U

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBMH8

Site: General Hydraulics (IL)
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBMH9DL		EBMJ0		EBMJ0DL		EBMK6		EBMK6DL	
REGIONAL SAMPLE NUMBER:										
SAMPLE LOCATION:	X102		X103		X103		X104		X104	
SAMPLE TYPE:	Routine Sample		Routine Sample		Routine Sample		Routine Sample		Routine Sample	
MATRIX/ANALYSIS:	Soil		Soil		Soil		Soil		Soil	
DILUTION FACTOR:	50.0		5.0		50.0		5.0		50.0	
PERCENT MOISTURE:	21		21		21		16		16	
PES										
alpha-BHC	110	U	11	U	110	U	10	U	100	U
beta-BHC	110	U	11	U	110	U	10	U	100	U
delta-BHC	110	U	11	U	110	U	10	U	100	U
gamma-BHC (Lindane)	110	U	11	U	110	U	10	U	100	U
Heptachlor	110	U	11	U	110	U	10	U	100	U
Aldrin	110	U	11	U	110	U	10	U	100	U
Heptachlor epoxide	110	U	11	U	110	U	2.6	J	100	U
Endosulfan I	110	U	11	U	110	U	10	U	100	U
Dieldrin	210	U	21	U	210	U	20	U	200	U
4,4'-DDE	100	J	110		100	J	59		56	J
Endrin	210	U	21	U	210	U	20	U	200	U
Endosulfan II	210	U	21	U	210	U	20	U	200	U
4,4'-DDD	480	J	450		380	J	100	J	120	J
Endosulfan sulfate	210	U	21	U	210	U	20	U	200	U
4,4'-DDT	360		560		370		320		220	J
Methoxychlor	1100	U	110	U	1100	U	100	U	1000	U
Endrin ketone	210	U	21	U	210	U	20	U	200	U
Endrin aldehyde	210	U	21	U	210	U	20	U	200	U
alpha-Chlordane	110	U	11	U	110	U	10	U	100	U
gamma-Chlordane	110	U	11	U	110	U	10	U	100	U
Toxaphene	11000	U	1100	U	11000	U	1000	U	10000	U
Aroclor-1016	2100	U	210	U	2100	U	200	U	2000	U
Aroclor-1221	4200	U	420	U	4200	U	400	U	4000	U
Aroclor-1232	2100	U	210	U	2100	U	200	U	2000	U
Aroclor-1242	2100	U	210	U	2100	U	200	U	2000	U
Aroclor-1248	2100	U	210	U	2100	U	200	U	2000	U
Aroclor-1254	2100	U	210	U	2100	U	200	U	2000	U
Aroclor-1260	2100	U	210	U	2100	U	200	U	2000	U

FILE NAME: EBMH8 DATE: 08/01/97 TIME: 12:21 CADRE 2.3.1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25526
SDG No: EBMH8

Site: General Hydraulics (IL)
Laboratory: CLAYTON NOVI

EPA SAMPLE NUMBER:	EBMK7		PBLK1S				
REGIONAL SAMPLE NUMBER:							
SAMPLE LOCATION:	X105						
SAMPLE TYPE:	Routine Sample		Method Blank				
MATRIX/ANALYSIS:	Soil		Soil				
DILUTION FACTOR:	1.0		1.0				
PERCENT MOISTURE:	6		0				
PES							
alpha-BHC	1.8	U	1.7	U			
beta-BHC	1.8	U	1.7	U			
delta-BHC	1.8	U	1.7	U			
gamma-BHC (Lindane)	1.8	U	1.7	U			
Heptachlor	1.5	J	1.7	U			
Aldrin	1.8	U	1.7	U			
Heptachlor epoxide	0.970	J	1.7	U			
Endosulfan I	1.8	U	1.7	U			
Dieldrin	3.5	U	3.3	U			
4,4'-DDE	3.5	U	3.3	U			
Endrin	3.5	U	3.3	U			
Endosulfan II	3.5	U	3.3	U			
4,4'-DDD	3.5	U	3.3	U			
Endosulfan sulfate	3.5	U	3.3	U			
4,4'-DDT	1.3	J	3.3	U			
Methoxychlor	18	U	17	U			
Endrin ketone	3.5	U	3.3	U			
Endrin aldehyde	3.5	U	3.3	U			
alpha-Chlordane	1.8	U	1.7	U			
gamma-Chlordane	1.8	U	1.7	U			
Toxaphene	180	U	170	U			
Aroclor-1016	35	U	33	U			
Aroclor-1221	70	U	67	U			
Aroclor-1232	35	U	33	U			
Aroclor-1242	35	U	33	U			
Aroclor-1248	35	U	33	U			
Aroclor-1254	35	U	33	U			
Aroclor-1260	35	U	33	U			

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

Volatile Analysis Data - VBLKBZ
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBMH8
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
556-67-2	CYCLOTETRASILOXANE, OCTAMETH	17.83	21.000	JN
541-02-6	CYCLOPENTASILOXANE, DECAMETH	21.46	20.000	JN

FILE NAME: EBMH8.SDG DATE: 08/01/97 TIME: 12:38 CADRE 2.3.1 PAGE: 1

Volatile Analysis Data - EBMH8
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBMH8
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EBMH8.SDG DATE: 08/01/97 TIME: 12:38 CADRE 2.3.1 PAGE: 2

Volatile Analysis Data - EBMH9
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBMH8
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EBMH8.SDG DATE: 08/01/97 TIME: 12:38 CADRE 2.3.1 PAGE: 3

Volatile Analysis Data - EBMK6
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBMH8
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EBMH8.SDG DATE: 08/01/97 TIME: 12:38 CADRE 2.3.1 PAGE: 4

Volatile Analysis Data - EBMK7
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBMH8
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EBMH8.SDG DATE: 08/01/97 TIME: 12:38 CADRE 2.3.1 PAGE: 5

Volatile Analysis Data - EBMJ0
Tentatively Identified Compounds

CASE NO: 25526
SDG NO: EBMH8
LABORATORY: CLAYTON NOVI

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

FILE NAME: EBMH8.SDG DATE: 08/01/97 TIME: 12:38 CADRE 2.3.1 PAGE: 6

Volatile Analysis Data - VBLKBA
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
556-67-2	CYCLOTETRASILOXANE, OCTAMETH	17.84	24.000	JN

Volatile Analysis Data - VHBLK
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q

Semivolatile Analysis Data - SBLKS1
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
15870-10-7	1-HEPTENE, 2-METHYL-	5.03	68.000	JN
141-78-6	ACETIC ACID, ETHYL ESTER	5.09	69.000	JN
141-79-7	3-PENTEN-2-ONE, 4-METHYL- +	5.31	86.000	JNA
	UNKNOWN	5.66	240.000	J
123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	6.05	4600.000	JNA
	UNKNOWN	6.35	90.000	J
286-20-4	7-OXABICYCLO[4.1.0]HEPTANE +	6.41	940.000	JN
822-67-3	2-CYCLOHEXEN-1-OL	6.80	150.000	JN
	UNKNOWN	7.12	140.000	J
	UNKNOWN	7.24	300.000	J
930-68-7	2-CYCLOHEXEN-1-ONE	7.43	110.000	JN
	UNKNOWN	7.47	820.000	J
5343-96-4	2-BUTANOL, 3-METHYL-, ACETAT	8.25	230.000	JN
	UNKNOWN	23.24	200.000	J

Semivolatile Analysis Data - EBMH8
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	7.12	230.000	J
	UNKNOWN	7.23	590.000	J
23293-50-7	3-HEXYN-2-OL, 5-METHYL-	7.47	1300.000	JN
	UNKNOWN	8.26	460.000	J
	UNKNOWN	22.80	300.000	J
	UNKNOWN	23.24	820.000	J
72-55-9	BENZENE, 1,1'-(DICHLOROETHEN	23.44	330.000	JN
60-57-1	DIELDRIN + UNKNOWN	23.73	310.000	JN
72-54-8	P,P'-DDD + UNKNOWN	24.12	220.000	JN
82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE +	25.18	240.000	JN
239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	25.48	310.000	JN
195-19-7	BENZO[C]PHENANTHRENE	25.56	220.000	JN
27208-37-3	CYCLOPENTA[CD]PYRENE	25.64	300.000	JN
13375-54-7	BENZO(A)CARBAZOLE + UNKNOWN	26.93	220.000	JN
1705-84-6	TRIPHENYLENE, 2-METHYL-	27.50	240.000	JN
112-88-9	1-OCTADECENE + UNKNOWN	30.20	600.000	JN
205-82-3	BENZO[J]FLUORANTHENE	30.97	210.000	JN
5751-45-1	1-(2,2'BIPHENYLYLEN)-3-PHENY	31.39	220.000	JN
192-97-2	BENZO[E]PYRENE	31.85	1600.000	JN
205-82-3	BENZO[J]FLUORANTHENE	32.38	460.000	JN
	UNKNOWN	33.42	230.000	J
	UNKNOWN	35.13	560.000	J
215-58-7	1,2:3,4-DIBENZOANTHRACENE	36.59	500.000	JN
191-26-4	DIBENZO[DEF,MNO]CHRYSENE + U	36.77	280.000	JN
215-58-7	1,2:3,4-DIBENZOANTHRACENE	37.84	1300.000	JN
215-58-7	1,2:3,4-DIBENZOANTHRACENE	38.05	370.000	JN
	UNKNOWN	39.13	220.000	J
191-26-4	DIBENZO[DEF,MNO]CHRYSENE	39.54	230.000	JN

Semivolatile Analysis Data - EBMK6
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
3744-02-3	4-PENTEN-2-ONE, 4-METHYL- +	5.31	140.000	JN
	UNKNOWN	7.11	220.000	J
	UNKNOWN	7.22	450.000	J
	UNKNOWN	7.28	150.000	J
4436-75-3	3-HEXENE-2,5-DIONE	7.46	1100.000	JN
	UNKNOWN	7.97	250.000	J
	1ST PEAK IN FYROL PCF + UNKN	20.36	210.000	J
	UNKNOWN	21.35	170.000	J
57-10-3	HEXADECANOIC ACID	21.39	190.000	JN
832-64-4	PHENANTHRENE, 4-METHYL- + UN	21.80	190.000	JN
3674-65-5	PHENANTHRENE, 2,3-DIMETHYL-	22.58	150.000	JN
	UNKNOWN	23.23	900.000	J
72-55-9	BENZENE, 1,1'-(DICHLOROETHEN	23.43	150.000	JN
2381-21-7	PYRENE, 1-METHYL-	23.97	220.000	JN
	UNKNOWN	24.44	140.000	J
8017-34-3	BENZENE, 1-CHLORO-2-[2,2,2-T	24.77	150.000	JN
239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	25.46	160.000	JN
56554-86-0	17-OCTADECENAL + UNKNOWN	29.16	450.000	JN
6624-79-9	1-DOTRIACONTANOL	30.18	1000.000	JN
192-97-2	BENZO[E]PYRENE	31.81	570.000	JN
	UNKNOWN	33.66	140.000	J
36728-72-0	28-NOR-17BETA(H)-HOPANE + UN	34.52	140.000	JN
	UNKNOWN	35.75	180.000	J
	UNKNOWN	35.98	430.000	J
	UNKNOWN	37.81	2000.000	J
	2,2,3,7-TETRAMETHYLTRICYCLO(	38.36	430.000	J
	UNKNOWN	39.12	330.000	J

Semivolatile Analysis Data - EBMH9
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
40459-88-9	1-METHYL-2-CYCLOPENTEN-1-OL	6.41	1000.000	JN
	UNKNOWN	7.23	320.000	J
	TRANS-3-HEXENE-2,5-DIONE	7.46	1100.000	J
	UNKNOWN	7.97	260.000	J
	UNKNOWN	8.24	360.000	J
	UNKNOWN	20.33	210.000	J
	UNKNOWN	21.29	220.000	J
4459-57-8	OXACYCLOHEXADECAN-2-ONE, 16-	21.35	340.000	JN
57-10-3	HEXADECANOIC ACID	21.39	400.000	JN
203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	21.79	360.000	JN
84-65-1	9,10-ANTHRACENEDIONE	22.15	190.000	JN
	UNKNOWN	22.69	240.000	J
	2-HEPTENE, 3-METHYL- + UNKNO	23.23	970.000	J
72-54-8	P,P'-DDD + UNKNOWN	23.61	260.000	JN
243-17-4	11H-BENZO[B]FLUORENE + UNKNO	23.96	330.000	JN
72-54-8	P,P'-DDD + UNKNOWN	24.11	440.000	JN
2381-21-7	PYRENE, 1-METHYL- + UNKNOWN	24.43	210.000	JN
82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE +	25.17	440.000	JN
	UNKNOWN	25.45	350.000	J
	UNKNOWN	25.55	280.000	J
	UNKNOWN	26.57	250.000	J
	2-METHYLCHRYSENE + UNKNOWN	27.49	240.000	J
	UNKNOWN	29.17	520.000	J
6971-40-0	17-PENTATRIACONTENE	30.19	970.000	JN
205-99-2	BENZ[E]ACEPHENANTHRYLENE	31.80	540.000	JN
14021-23-9	TARAXEROL METHYL ETHER + UNK	37.81	3200.000	JN
	UNKNOWN	38.35	580.000	J
	UNKNOWN	39.11	460.000	J

Semivolatile Analysis Data - EBMK7
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
40459-88-9	1-METHYL-2-CYCLOPENTEN-1-OL	6.40	1000.000	JN
	UNKNOWN	7.11	210.000	J
	UNKNOWN	7.23	500.000	J
18589-27-0	HEXANE, 2-IODO-	7.28	190.000	JN
	TRANS-3-HEXENE-2,5-DIONE	7.46	1200.000	J
	UNKNOWN	21.38	94.000	J
781-43-1	ANTHRACENE, 9,10-DIMETHYL- +	22.58	110.000	JN
	UNKNOWN	22.79	110.000	J
	UNKNOWN	23.23	340.000	J
243-17-4	11H-BENZO[B]FLUORENE + UNKNO	23.97	130.000	JN
	UNKNOWN	24.45	120.000	J
	UNKNOWN	25.45	140.000	J
	2-METHYL-4,6-BIS(1-PHENYLETH	25.55	87.000	J
	UNKNOWN	27.41	97.000	J
2498-66-0	BENZ[A]ANTHRACENE-7,12-DIONE	27.70	120.000	JN
	UNKNOWN	28.88	150.000	J
	UNKNOWN	29.17	120.000	J
	UNKNOWN	30.24	150.000	J
	UNKNOWN	30.93	130.000	J
	UNKNOWN	31.65	87.000	J
192-97-2	BENZO[E]PYRENE	31.79	480.000	JN
	UNKNOWN	32.62	200.000	J
	UNKNOWN	34.50	210.000	J
	UNKNOWN	35.96	340.000	J
	UNKNOWN	37.78	130.000	J
	UNKNOWN	39.08	220.000	J

Semivolatile Analysis Data - EBMJ0
Tentatively Identified Compounds

CASE NO: 25526 LABORATORY: CLAYTON NOVI
SDG NO: EBMH8

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
7319-23-5	3-HEXENE-2,5-DIOL	5.30	150.000	JN
	UNKNOWN	5.64	420.000	J
	UNKNOWN	7.12	280.000	J
	UNKNOWN	7.23	460.000	J
	TRANS-3-HEXENE-2,5-DIONE	7.46	1300.000	J
	UNKNOWN	7.96	240.000	J
	UNKNOWN	8.24	380.000	J
98-82-8	BENZENE, (1-METHYLETHYL)- +	8.61	280.000	JN
112-80-1	9-OCTADECENOIC ACID (Z)- + U	20.33	150.000	JN
2091-29-4	9-HEXADECENOIC ACID + UNKNOW	21.29	250.000	JN
69297-56-9	15-HEXADECANOLIDE	21.35	540.000	JN
57-10-3	HEXADECANOIC ACID	21.40	500.000	JN
111-67-1	2-OCTENE + UNKNOWN	23.24	890.000	JN
72-54-8	P,P'-DDD	24.12	270.000	JN
789-02-6	O,P'-DDT	24.78	220.000	JN
	UNKNOWN	25.46	180.000	J
36653-82-4	1-HEXADECANOL + UNKNOWN	27.27	200.000	JN
	UNKNOWN	29.18	520.000	J
	UNKNOWN	31.33	150.000	J
192-97-2	BENZO[E]PYRENE + UNKNOWN	31.77	220.000	JN
	UNKNOWN	33.65	190.000	J
	UNKNOWN	35.13	1100.000	J
	UNKNOWN	35.97	340.000	J
14021-23-9	TARAXEROL METHYL ETHER + UNK	37.82	3000.000	JN
	UNKNOWN	38.36	540.000	J
	UNKNOWN	39.11	370.000	J
	UNKNOWN	40.46	270.000	J

Missing Contents Error Report

SDG NO: **EBMH8**

CASE NO: **25526**

LABORATORY: **CLAYTON NOVI**

AGENCY INPUT FILE: **EBMH8.OAS**

FIELD DESCRIPTION	CADRE KEY		
Analysis Time	Record Type 20	Line 3250	Format HH:MM
Analysis Time	Record Type 20	Line 3263	Format HH:MM
Sulfur Cleanup	Record Type 27	Line 3760	Format RANGE
Analysis Time	Record Type 20	Line 4477	Format HH:MM
Analysis Time	Record Type 20	Line 4490	Format HH:MM
Sulfur Cleanup	Record Type 27	Line 4987	Format RANGE

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 11, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Bynits
7/23/97

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: General Hydraulics (IL)

CASE NUMBER: 25526 SDG NUMBER: EBZC5

Number and Type of Samples: 7 (Water)

Sample Numbers: EBZC5-9 EBZD0-1

Laboratory: Envirosystem Hrs. for Review: 12.5 + 1 [illegible]

Following are our findings:
the data is useable and acceptable with the qualifications described in the attached narrative.
Richard L Bynits

cc: Regional TPO
Cecilia ~~Luckett~~
SM-5J MOORE

RECEIVED
JUL 31 1997
IEPA/BOL

NARRATIVE

Contractor:	Envirosystem	Case:	25526
Site:	General Hydraulics (IL)	SDG:	EBZC5

This case consists of 7 low concentration water samples EBZC5-9 and EBZD0-1. These samples were all collected on June 25, 1997 and were received by the laboratory on June 27, 1997. All samples except EBZC9 were analyzed for the volatiles, semi-volatiles, and pesticide/PCB organic analytes. Sample EBZC9 was designated as a trip blank on the sample tag and was only analyzed for volatiles. All samples were analyzed according to CLP Low Concentration Water (OLC02.1).

The VOA analyses were performed within the technical holding time of 14 days after sample collection, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

The laboratory ran a laboratory control sample for each fraction.

After reviewing sample tags sample EBZD0 was a field blank and EBZC9 was a trip blank.

From the record of communication enclosed as part of this narrative, no correct COC was supplied by the sampler, and one was created by CLASS.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by:M. Kaminsky
Lockheed-Martin ESAT
Date:July 21, 1997

NARRATIVE

Contractor: Envirosystem Case: 25526
Site: General Hydraulics (IL) SDG: EBZC5

1.HOLDING TIMES

This case consists of 7 low concentration water samples EBZC5-9 and EBZD0-1. These samples were all collected on June 25, 1997 and were received by the laboratory on June 27, 1997. All samples except EBZC9 were analyzed for the volatiles, semi-volatiles, and pesticide/PCB organic analytes. Sample EBZC9 was designated as a trip blank and was only analyzed for volatiles. All samples were analyzed according to CLP Low Concentration Water (OLC02.1).

The VOA analyses were performed within the technical holding time of 14 days after sample collection, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

2.GC/MS TUNING

All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the 12 hour periods for instrument performance checks.

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the 12 hour periods for instrument performance checks. GC Resolution Check Mixes met the 60% resolution criteria. Endrin and DDT degradation checks using PEM MIX on RTX-35 and RTX-1701 columns were <20%; therefore, the results are acceptable. The Florisil Cartridge Check met QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibrations of the volatile, semivolatile, and pesticide/PCBs were evaluated for the target compound list and outliers are recorded on the forms included as part of the narrative.

4.BLANKS

VOA:

The volatile low water blank VBLKCF as well as the holding blank VHBLKCF were found to contain neither TCLs or TICs. The volatile method blank summary (Form IV VOA) lists the samples associated with these blanks.

SVOA:

Reviewed by:M. Kaminsky
Lockheed-Martin ESAT
Date:July 21, 1997

NARRATIVE

Contractor: Envirosystem Case: 25526
Site: General Hydraulics (IL) SDG: EBZC5

SBLK09, the semi-volatile water blank was found to contain neither TCLs or TICs. The semivolatile method blank summary (Form IV SVOA) lists the samples associated with this blank.

PESTICIDE/PCB:

The pesticide water blank PBLK07 was found to be clean. The pesticide/PCB blank summary (Form IV PEST) lists the samples associated with this blank.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

VOA:

The volatile water system monitoring compounds were within the QC limits for all samples; therefore, the results are acceptable.

SVOA:

The semivolatile water surrogate recovery compounds were within the QC limits for all samples, therefore, all results are acceptable.

PESTICIDE/PCB:

The pesticide surrogates were within QC limits for all samples; therefore, the results are acceptable.

6. LABORATORY CONTROL SAMPLE

VOA:

All spike recoveries for the volatile water sample VLCSCF were within QC limits; therefore, the results are acceptable.

SVOA:

All spike recoveries for the semi-volatile water sample SLCS14 were within QC limits; therefore, the results are acceptable.

PESTICIDE/PCB:

All spike recoveries for the pesticide/PCB water sample PLCS15 were within QC limits; therefore, the results are acceptable.

7.FIELD BLANKS AND FIELD DUPLICATES

Sample EBZC9 was indicated on the sample tag as a trip blank and was found to contain neither volatile TCLs or TICs. Sample EBZD0 waas indicated as the field blank. This sample contained only 2 VOC TCLs and no TICs.

8.INTERNAL STANDARDS

Reviewed by:M. Kaminsky
Lockheed-Martin ESAT
Date:July 21, 1997

NARRATIVE

Contractor:	Envirosystem	Case:	25526
Site:	General Hydraulics (IL)	SDG:	EBZC5

VOA:

No problems were reported.

SVOA:

No problems were reported.

9.COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and pesticide/PCB compounds were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All CRQLs were properly reported and no dilutions were performed All target compounds were properly reported.

11.SYSTEM PERFORMANCE

GC/MS and pesticide baselines indicated acceptable performance.

12.ADDITIONAL INFORMATION

The temperature of the samples upon receipt at the laboratory was 15°C.The original COC/OTR which was received with this case was not in CLP format with EPA identification numbers. CLASS prepared the new COC, which contains certain omissions and errors, as to which sample received whch analysis. The effect that this will have on the defensibility of the data is not known by this reviewer.

Reviewed by:M. Kaminsky
Lockheed-Martin ESAT
Date:July 21, 1997

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25526
COLUMN: RTX 502.2
HEATED PURGE (Y/N): Y

LABORATORY: ENVSYS
SITENAME: General Hydraulics IL

Instrument# FS100C		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		7/07 1031														
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															

Samples affected:
VBLKCF VLCSCF
EBZC87-9
EBZD0-1
VHBLKCF

Reviewer's Init/Date MK 7-15-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 25526
COLUMN:

LABORATORY: Envirosyn
SITE NAME: General Hydraulics

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		6-12 1353			7-01 0957			7-02 1133								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01	0.498			0.296	40.6	J									
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01	0.330			0.046	86.1	J/R	0.200	38.4	J						
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

SBLK09	SLCS14
EBZCS-8	
EBZDO-1	

Reviewer's Init/Date: MK 7-15-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 25526
COLUMN:

LABORATORY: Enviro-Sys
SITE NAME: General Hydraulic

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		6/12 1353			7/01 0957			7/02 1133								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01	0.260			0.091	65.0	J	0.113	56.5	J						
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01	0.357			0.167	53.2	J									
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.240			0.064	73.3	J	0.115	52.1	J						
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70	1.200			1.650	37.5	J									
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: MK 7-15-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CALIBRATION OUTLIER
Pesticide/PCB TCL
(Page 1 of 1)

CASE/SAS #: 25526
COLUMN: RTX 1701

LABORATORY: ENVSYS
SITE NAME: General Hydraulics

Instrument Number HP 9081	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date	709		710							
Time	1052		1148							
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Hepachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Arolcor 1016										
Aroclor 1221										
Aroclor 1232										
Arolcor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

	PLCS 15			
	EBZC5-8			
	EBZD0-1			
	PBLK07			

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: MK 7-15-97

CALIBRATION SUMMARY
Pesticide/PCB TCL
(Page 1 of 1)

CASE/SAS #: 25526
COLUMN: RTX 35

LABORATORY: ENVSYS
SITE NAME: General Hydraulics IL

Instrument Number	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date	7-09		7-10							
Time	1032		1148							
	%RSD	*	%D	*	%D	*	%D	*	%D	*
alpha-BHC										
beta-BHC										
delta-BHC										
gamma-BHC										
Heptachlor										
Aldrin										
Heptachlor Epoxide										
Endosulfan I										
Dieldrin										
4,4'-DDE										
Endrin										
Endosulfan II										
4,4'-DDD										
Endosulfan Sulfate										
4,4'-DDT										
Methoxychlor										
Endrin Ketone										
Endrin Aldehyde										
alpha-Chlordane										
gamma-Chlordane										
Aroicor 1016										
Aroclor 1221										
Aroclor 1232										
Aroicor 1242										
Aroclor 1248										
Aroclor 1254										
Aroclor 1260										

Affected Samples:

	PBLK07			
	PLCS15			
	EB2CS-8			
	EB3DO-1			

* These flags should be applied to the analytes on the sample data sheets.
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: MK 7-15-91

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

900000

RECEIVED

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 25526

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier

Regional Information

Sampler (Name)

Airbill Number

Non-Superfund Program: General Hydraulics

Sampler Signature

Site Name: South Beloit, IL

City, State

Site Spill ID: ZZ

3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ✓ ESI; Long-Term Action: FS, RD, RA, O&M, NPLD

5. Ship To: ENVSYS Envirosystems, 9200 Rumsey Rd, Columbia, MD 21045

ATTN: Dr. Mohon Khare

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

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (G = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
EBZC5		L				✓	✓		SD3; 149398, 149460	G204	6/25/97 10:30			
									149461, 149462					
EBZC6		L			✓	✓	✓		SD1; 149134, 149133	G201	6/25/97 12:30			
EBZC7		L			✓	✓	✓		SD2; 149137, 149138, 149139,					
									149140, 149141, 149142, 1914[illegible]	G202	6/25/97 12:00			
EBZC8		L			✓	✓	✓		SD4; 149459, 149460, 149461,					
									149462, 149463, 149464, 149465	G205	6/25/97 9:45			
EBZC9		L			✓				SD2; 149468, 149469	G206	6/25/97 10:15			
EBZD0		L			✓	✓	✓		149470, 149471, 149472, 149473,					
									149474, 149475, 149476	G207	6/25/97 10:00			

Shipment for Case Complete? (Y/N)	Page ___ of ___	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by: (Signature) Cornston Thaung	Date / Time 6/27/97 13:50	Remarks Is custody seal intact? Y/N/none YES	

A21-012-15 REV

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

SDG# EBZC5

Sample EBZC5 should have VOA analysis. WS.

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 25526

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier

Regional Information

Sampler (Name)

Airbill Number

Non-Superfund Program: General Hydraulics

Site Name: South Belbit, IL

City, State

Site Spill ID: ZZ

Sampler Signature

3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ✓ ESI; Long Term Action: FS, RD, RA, O&M, NPLD

5. Ship To: Envirosystems, 9200 Rumsey Rd, Columbia, MD 21045

ATTN: Dr. Khare

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

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
EBZDi		L			✓	✓	✓		149146, 47, 48, 49, 50, 51	G203	6/25/97 12:00			

Shipment for Case Complete? (Y/N)	Page ___ of ___	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Cornelius Thaung	Date / Time 6/27/97 13:50	Remarks Is custody seal intact? Y/N/none YES	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-15 REV

SDG EBZC5 SDG Final Sample

000007

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 25526 SDG #: EBZC5 REGION: V

CONTRACT: 68-D7-0005

DATES SAMPLES RECEIVED AT LABORATORY: 27 JUNE 1997

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	VOA pH
EBZC5	97061243	VOA, BNA, PEST	1
EBZC6	97061244	VOA, BNA, PEST	1
EBZC7	97061245	VOA, BNA, PEST	1
EBZC8	97061246	VOA, BNA, PEST	1
EBZC9	97061247	VOA	1
EBZD0	97061248	VOA, BNA, PEST	1
EBZD1	97061249	VOA, BNA, PEST	1

Samples for this contract are analyzed by EPA SOW OLC02.1 for low concentration water.

All instances where GC/MS manual integration was necessary are initialled and dated by the analyst.

Due to problems with Federal Express samples for this SDG were not received until the second day after shipping. The temperature of the samples upon receipt at the laboratory was 15 degrees Celcius. CLASS was informed and the resolution was to proceed with sample analysis.

Original traffic reports received with samples in this SDG were not CLP format with EPA identification numbers. CLASS was contacted and FAXed copies of CLP traffic reports were received. The laboratory has not received original copies of the CLP style traffic reports.

Documentation of laboratory correspondence with CLASS is included in the SDG File section of this data package.

VOLATILES SECTION:

The volatile analysis was performed using a Restek 105 meter RTX-502.2 column with an inner diameter of 0.53 mm and a 3 micron film thickness.

The trap used with the autosampler is a 30 cm Supelco, Inc. K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

All QC criteria were met for all samples in this SDG.

Each of the twelve lab control sample compound recoveries was within the QC limits.

SEMIVOLATILES SECTION:

The semi-volatile analysis was performed using a Restek XTI-5 30 meter column with an inner diameter of 0.32 mm and a 0.5 micron film thickness.

All QC criteria were met for all samples in this SDG.

Each of the fourteen lab control sample compound recoveries was within the QC limits.

PESTICIDE/AROCLOR SECTION:

The primary analytical column was a Restek RTX-1701, 30m, 0.53mm ID, 1.0 micron film thickness. Confirmation analysis was performed using a Restek RTX-35, 30m, 0.53 mm ID, 1.0 micron film thickness GC column.

All QC criteria were met for all samples in this SDG.

Each of the fourteen lab control sample compound recoveries was within the QC limits.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

DATE: 7/10/97

William Brewington
Organics Section Manager

10 July 1997

9200 Rumsey Road • Suite B102 • Columbia, Maryland 21045-1934
Phone (410) 964-0330 • Fax (410) 740-9306

FAX TRANSMITTAL PAGE

SENT TO: Ms. SHIRLEY RIVERS

COMPANY: DYNCORP

FAX NUMBER: 703-519-8626

FROM: WINSTON THAUNG

COMPANY: ENVIROSYSTEMS, INC., FAX NO: 410-740-9306

DATE TRANSMITTED: 7/08/97 TIME:

NUMBER OF PAGES: EIGHT INCLUDING THIS COVER SHEET

COMMENTS/NOTES: CASE 25526 REGION V.

— TR received with samples & tags. TR # 5-27445, -27447, -27448 & 5-27450

— TR rec'd. for MISTLE of Dyncorp via FAX. # 372277 & 372278

Note:- Sample EBZC5 should have VOA analysis.

Awaiting original TR from Dyncorp.

— SDG cover sheet with RAS sample #s.

IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL 410-964-0330.

7/8/97

faxed 3:45 pm / cs

Record of Communication

Name: Mistie Sisson

Contact Recv'd Via: ☒ Phone ☐ Fax ☐ Vmail ☐ Memo ☐ Other

Date/Time of Contact: 6/30/97 2:00 PM

Contact/Org./Phone #: Will Brewington/ Envirosystems, Inc./ (410) 964-0330

Initiated By: ☐ EPA ☐ CLASS ☐ Engr. Contr. ☒ Lab ☐ Region ☐ SCC ☐ Other

Lab: ENVSYS **Contract #:** 68-D7-0005 **Case #:** 25526 **SDG:** **Region:** 5

SOW: **Affected Samples:** All **Invoice #:**

Discussion/Issue:

06/27/97, 2:00 PM: Will Brewington, ENVSYS, called CLASS and left a message via voice mail stating the samples were 15 degrees Celsius when they arrived. FedEx had some problems and delivered the samples a day late. How should the lab proceed?

06/27/97, 2:15 PM: CLASS called Bob Casper, sampler, and left a message via voice mail explaining the issue.

Resolution:

06/30/97, 10:00 AM: Bob called CLASS and stated the lab should note the temperature in the case narrative and proceed with the analysis.

06/30/97, 10:05 AM: Will called CLASS to see if there was a resolution, CLASS stated the above resolution.

06/30/97, 10:15 AM: CLASS called Cecilia Moore, RSCC, and informed her of the issue. She said the resolution was fine, proceed with the analysis.

To: Will Brewington
From: CLASS

CLPAS OPS: Yes **Completed Date/Time:**

Routed: Yes **Referred To:** **Date/Time:** **W.A.#:** ST&R

Distribution: ◉ Lab ◉ Region ◉ CLASS ○ AOC ○ Work Assign. Man.

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITOING COMPOUND RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

	EPA SAMPLE NO.	BFB %REC #	OTHER	TOT OUT
01	EBZC5	104	0	0
02	EBZC6	107	0	0
03	EBZC7	107	0	0
04	EBZC8	108	0	0
05	EBZC9	99	0	0
06	EBZD0	108	0	0
07	EBZD1	109	0	0
08	VHBLKCF	108	0	0
09	VLCSCF	106	0	0
10	VBLKCF	106	0	0

QC LIMITS
%REC
BFB = Bromofluorobenzene (80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

000014

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCSCF

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0707LCSC1 LCS Lot No.:

Lab File ID: 0707LCSC1 Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

LCS Aliquot: 10 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Vinyl chloride	125	111	89	60-140
1,2-Dichloroethane	125	100	80	60-140
Carbon tetrachloride	125	125	100	60-140
1,2-Dichloropropane	125	105	84	60-140
Trichloroethene	125	101	81	60-140
1,1,2-Trichloroethane	125	100	80	60-140
Benzene	125	94.0	75	60-140
cis-1,3-Dichloropropene	125	116	93	60-140
Bromoform	125	122	98	60-140
Tetrachloroethene	125	107	86	60-140
1,2-Dibromoethane	125	113	90	60-140
1,4-Dichlorobenzene	125	94.7	78	60-140

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: VLCSCF LAB CONTROL SPIKE 6/27 25ML
F5100C 35(5)/240/10 HDF

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKCF

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0707VWBC1 Date Analyzed: 07/07/97

Lab File ID: 0707VWBC1 Time Analyzed: 1422

Instrument ID: F5100C

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBZC5	97061243	061243RE	1630
02	EBZC6	97061244	061244RE	1708
03	EBZC7	97061245	061245RE	1745
04	EBZC8	97061246	061246RE	1822
05	EBZC9	97061247	061247R	1553
06	EBZD0	97061248	061248RE	1900
07	EBZD1	97061249	061249RE	1937
08	VHBLKCF	0707VHBC1	0707VHBC1	2013
09	VLCSCF	0707LCSC1	0707LCSC1	1516

COMMENTS: VBLKCF VOLATILE LCO LAB BLANK 25ML
F5100C 35(5)/240/10 HDF

000016

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKCF

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0707VWBC1 Date Received:

Lab File ID: 0707VWBC1 Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

000120

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCF

L Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0707VWBC1 Date Received:

Lab File ID: 0707VWBC1 Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKCF

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0707VHBC1 Date Received:

Lab File ID: 0707VHBC1 Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKCF

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0707VHBC1 Date Received:

Lab File ID: 0707VHBC1 Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCSCF

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0707LCSC1 Date Received:

Lab File ID: 0707LCSC1 Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	4	
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	4	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	5	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	4	
10061-01-5	cis-1,3-Dichloropropene	5	
79-01-6	Trichloroethene	4	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	4	
71-43-2	Benzene	4	
10061-02-6	trans-1,3-Dichloropropene	5	
75-25-2	Bromoform	5	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	5	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	4	
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC5

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061243 Date Received: 06/27/97

Lab File ID: 061243RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC5

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061243 Date Received: 06/27/97

Lab File ID: 061243RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC6

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061244 Date Received: 06/27/97

Lab File ID: 061244RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	3	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC6

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061244 Date Received: 06/27/97

Lab File ID: 061244RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC7

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061245 Date Received: 06/27/97

Lab File ID: 061245RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC7

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061245 Date Received: 06/27/97

Lab File ID: 061245RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC8

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061246 Date Received: 06/27/97

Lab File ID: 061246RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	1	U
67-64-1	Acetone	10	
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	2	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

000047

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC8

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061246 Date Received: 06/27/97

Lab File ID: 061246RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC9

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061247 Date Received: 06/27/97

Lab File ID: 061247R Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	U

000062

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC9

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061247 Date Received: 06/27/97

Lab File ID: 061247R Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZDO

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061248 Date Received: 06/27/97

Lab File ID: 061248RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	18	
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.6	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

000068

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZDO

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061248 Date Received: 06/27/97

Lab File ID: 061248RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZD1

Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061249 Date Received: 06/27/97

Lab File ID: 061249RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

000080

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZD1

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061249 Date Received: 06/27/97

Lab File ID: 061249RE Date Analyzed: 07/07/97

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

La Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

	EPA SAMPLE NO.	NBZ %REC	#	FBP %REC	#	TPH %REC	#	PHL %REC	#	2FP %REC	#	TBP %REC	#	OTHER %REC	#	OUT TOT
01	EBZC5	90		68		80		60		87		58		0		0
02	EBZC6	88		72		81		58		88		54		0		0
03	EBZC7	99		75		88		63		92		53		0		0
04	EBZC8	103		74		87		66		97		64		0		0
05	EBZD0	99		78		93		67		100		58		0		0
06	EBZD1	96		75		91		62		91		55		0		0
07	SLCS14	108		83		81		78		86		61		0		0
08	SBLK09	101		76		89		64		90		57		0		0

		QC LIMITS %REC
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-140)
S4 (PHL)	= Phenol-d5	(15-115)
S5 (2FP)	= 2-Fluorophenol	(15-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

000140

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS14

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0630LCS2 LCS Lot No.:

Lab File ID: 0630LCS2 Date Extracted: 06/30/97

LCS Aliquot: 1000 (ul) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC	#	QC LIMITS
Phenol	40.0	25.9	65		40-120
bis(2-Chloroethyl)ether	20.0	17.6	88		50-110
2-Chlorophenol	40.0	29.9	75		50-110
N-Nitroso-di-n-propylamine	20.0	15.8	79		30-110
Hexachloroethane	20.0	12.8	64		20-110
Isophorone	20.0	15.5	78		50-110
Napthalene	20.0	16.2	81		30-110
4-Chloroaniline	40.0	5.33	13		10-120
2,4,6-Trichlorophenol	40.0	27.6	69		40-120
2,4-Dinitrotoluene	20.0	14.1	70		30-120
Diethylphthalate	20.0	17.7	88		50-120
N-Nitrosodiphenylamine	20.0	16.5	82		30-110
Hexachlorobenzene	20.0	16.5	82		40-120
Benzo(a)pyrene	20.0	14.4	72		50-120

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

000141

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK09

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0630SWBA1 Date Extracted: 06/30/97

Lab File ID: 0630SWBA1 Date Analyzed: 07/01/97

Instrument ID: F5100A Time Analyzed: 1154

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBZC5	97061243	S061243	07/01/97
02	EBZC6	97061244	S061244	07/01/97
03	EBZC7	97061245	S061245	07/01/97
04	EBZC8	97061246	S061246	07/01/97
05	EBZD0	97061248	S061248	07/01/97
06	EBZD1	97061249	S061249	07/01/97
07	SLCS14	0630LCS2	0630LCS2	07/02/97

COMMENTS: SBLK09 BNA H20 BLANK 6/30/97
F5100A 40(2)/320/11

000142

FORM IV LCSV 10/92

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK09

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0630SWBA1 Date Received:

Lab File ID: 0630SWBA1 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

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

000303

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK09

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0630SWBA1 Date Received:

Lab File ID: 0630SWBA1 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

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

(1) - Cannot be separated from Diphenylamine

000304

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK09

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0630SWBA1 Date Received:

Lab File ID: 0630SWBA1 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

000305

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC5

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061243 Date Received: 06/27/97

Lab File ID: S061243 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

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

000151

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC5

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061243 Date Received: 06/27/97

Lab File ID: S061243 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

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

(1) - Cannot be separated from Diphenylamine

000152

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC5

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061243 Date Received: 06/27/97

Lab File ID: S061243 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

000153

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC6

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061244 Date Received: 06/27/97

Lab File ID: S061244 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

000164

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC6

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lau Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061244 Date Received: 06/27/97

Lab File ID: S061244 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

(1) - Cannot be separated from Diphenylamine

000165

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC6

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061244 Date Received: 06/27/97

Lab File ID: S061244 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

000166

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC7

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lau Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061245 Date Received: 06/27/97

Lab File ID: S061245 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

000177

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC7

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061245 Date Received: 06/27/97

Lab File ID: S061245 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

(1) - Cannot be separated from Diphenylamine

000178

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC7

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061245 Date Received: 06/27/97

Lab File ID: S061245 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

000179

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC8

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061246 Date Received: 06/27/97

Lab File ID: S061246 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

000190

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC8

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061246 Date Received: 06/27/97

Lab File ID: S061246 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

(1) - Cannot be separated from Diphenylamine

000191

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC8

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061246 Date Received: 06/27/97

Lab File ID: S061246 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

000192

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZDO

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061248 Date Received: 06/27/97

Lab File ID: S061248 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 9.0

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

000206

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZDO

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061248 Date Received: 06/27/97

Lab File ID: S061248 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 9.0

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

(1) - Cannot be separated from Diphenylamine

000207

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZDO

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061248 Date Received: 06/27/97

Lab File ID: S061248 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 9.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

000208

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZD1

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061249 Date Received: 06/27/97

Lab File ID: S061249 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

000219

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZD1

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061249 Date Received: 06/27/97

Lab File ID: S061249 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

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

(1) - Cannot be separated from Diphenylamine

000220

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZD1

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 97061249 Date Received: 06/27/97

Lab File ID: S061249 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/01/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 8.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q

000221

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS14

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0630LCS2 Date Received:

Lab File ID: 0630LCS2 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	26	
111-44-4	bis(2-Chloroethyl)Ether	18	
95-57-8	2-Chlorophenol	30	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-Di-n-Propylamine	16	
67-72-1	Hexachloroethane	13	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	16	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)Methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	16	
106-47-8	4-Chloroaniline	5	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-Methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	28	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

000317

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS14

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0630LCS2 Date Received:

Lab File ID: 0630LCS2 Date Extracted: 06/30/97

Sample volume: 1000 (ml) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	14	
84-66-2	Diethylphthalate	18	
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	17	
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	16	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-Butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)Anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)Fluoranthene	5	U
207-08-9	Benzo(k)Fluoranthene	5	U
50-32-8	Benzo(a)Pyrene	14	
193-39-5	Indeno(1,2,3-cd)Pyrene	5	U
53-70-3	Dibenz(a,h)Anthracene	5	U
191-24-2	Benzo(g,h,i)Perylene	5	U

(1) - Cannot be separated from Diphenylamine

000318

2LCE

LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

GC Column(1): RTX1701 ID: 0.53(mm) GC Column(2): RTX35 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK07	80	84	84	95			0
02	EBZC5	80	84	90	98			0
03	EBZC6	76	78	88	97			0
04	EBZC7	85	88	98	106			0
05	EBZC8	85	88	94	104			0
06	EBZD0	84	84	92	100			0
07	EBZD1	85	88	96	105			0
08	PLCS15	79	82	82	92			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3LCC

LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS15

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample No.: 0702LFB2 LCS Lot No.: A006180

LCS Aliquot: 1000 (uL) Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date(s)analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

Sulfur Cleanup: (Y/N) N

Instrument ID(1): HP90B1 Column: RTX1701 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	88.2	88	56-123
Heptachlor Epoxide	100	102	102	74-150
Dieldrin	200	202	101	33-130
4,4'-DDE	200	213	107	50-150
Endrin	200	222	111	56-121
Endosulfan Sulfate	200	232	116	50-120
gamma-Chlordane	100	99.8	100	33-130

Instrument ID(2): HP90B2 Column: RTX35 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	100	80.6	81	56-123
Heptachlor Epoxide	100	88.7	89	74-150
Dieldrin	200	179	90	33-130
4,4'-DDE	200	186	93	50-150
Endrin	200	194	97	56-121
Endosulfan Sulfate	200	208	104	50-120
gamma-Chlordane	100	92.4	92	33-130

Column to be used to flag recovery values with an asterisk
*Values outside of QC limits
LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK07

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Lab Sample ID: 0702PWB1 Lab File ID:

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SepF

Sulfur Cleanup: (Y/N) N Date Extracted: 07/02/97

Date Analyzed (1): 07/10/97 Date Analyzed (2): 07/10/97

Time Analyzed (1): 1242 Time Analyzed (2): 1242

Instrument ID (1): HP90B1 Instrument ID (2): HP90B2

GC Column (1): RTX1701 ID: 0.53 (mm) GC Column (2): RTX35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBZC5	97061243	07/10/97	07/10/97
02	EBZC6	97061244	07/10/97	07/10/97
03	EBZC7	97061245	07/10/97	07/10/97
04	EBZC8	97061246	07/10/97	07/10/97
05	EBZD0	97061248	07/10/97	07/10/97
06	EBZD1	97061249	07/10/97	07/10/97
07	PLCS15	0702LFB2	07/10/97	07/10/97

COMMENTS:

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK07

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 0702PWB1

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC5

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

J Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 97061243

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

% Moisture: decanted: (Y/N) Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC6

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 97061244

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

% Moisture: decanted: (Y/N) Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC7

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

J Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 97061245

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

% Moisture: decanted: (Y/N) Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC8

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 97061246

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

% Moisture: decanted: (Y/N) Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZD0

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 97061248

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

% Moisture: decanted: (Y/N) Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 9.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZD1

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 97061249

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

% Moisture: decanted: (Y/N) Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS15 (1)

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

I Code: ENVSYS Case No.: 25526 SAS No.: SDG No.: EBZC5

Matrix: (soil/water) WATER Lab Sample ID: 0702LFB2

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

% Moisture: decanted: (Y/N) Date Received: 07/02/97

Extraction: (SepF/Cont/Sonc) SepF Date Extracted: 07/02/97

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 07/10/97

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.081	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.10	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.20	
72-55-9	4,4'-DDE	0.21	
72-20-8	Endrin	0.22	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.23	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.10	
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IL

Case No: 25526 Site Name Location: General Hydraulics

Contractor or EPA Lab: Envirosystem Data User: IEPA

No. of Samples: 7 Date Sampled or Data Received: 7-11-97

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 7 No. of samples received: 7

Received by: Lynette Burnett Date: 7-11-97

Received by LSSS: Lynette Burnett Date: 7-11-97

Review started: 7-15-97 Reviewer Signature: M Kenoly

Total time spent on review: 12.5 Date review completed: 7-18-97

Copied by: Lynette Burnett Date: 7-24-97

Mailed to user by: Lynette Burnett Date: 7-24-97

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

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

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

_____

_____

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