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HAZARDOUS WASTE MANAGEMENT

SOIL SAMPLING AND ANALYSIS

Container Storage/Tanker Storage Areas
and Area Adjacent to Incinerators
Saukville, Wisconsin
Cook Composites and Polymers Co.

Prepared for:

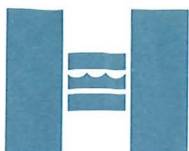
COOK COMPOSITES AND POLYMERS CO.
Saukville, Wisconsin

Prepared by:

HATCHER-SAYRE, INC.
Richmond, Virginia

Job No. 0001-001

August, 1991



HATCHER-SAYRE, INC.

August 22, 1991

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HAZARDOUS WASTE MANAGEMENT

Wisconsin Department of Natural Resources
Hazardous Waste Management Section
101 S. Webster Street, GEF II
P. O. Box 7921
Madison, Wisconsin 53707-7921

Attn: Mrs. Jill Fermanich
Hydrogeologist

Re: Soil Sampling and Analysis
Report, Cook Composites and
Polymers Co.
Saukville, Wisconsin
Job No. 0001-001

Dear Mrs. Fermanich:

Please find three (3) copies of the above referenced report enclosed. If you need any additional information, please call me.

Sincerely,

HATCHER-SAYRE, INC.

Robert D. Money

Robert D. Money, P.G.
Project Hydrogeologist

RDM/sp
ferman.ltr
Enclosures

cc: Mr. Craig Bostwick, Cook Composites and Polymers Co.
(2 copies of report)

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**SOIL SAMPLING AND ANALYSIS
CONTAINER STORAGE AND TANKER STORAGE AREAS,
AND AREA ADJACENT TO INCINERATORS**

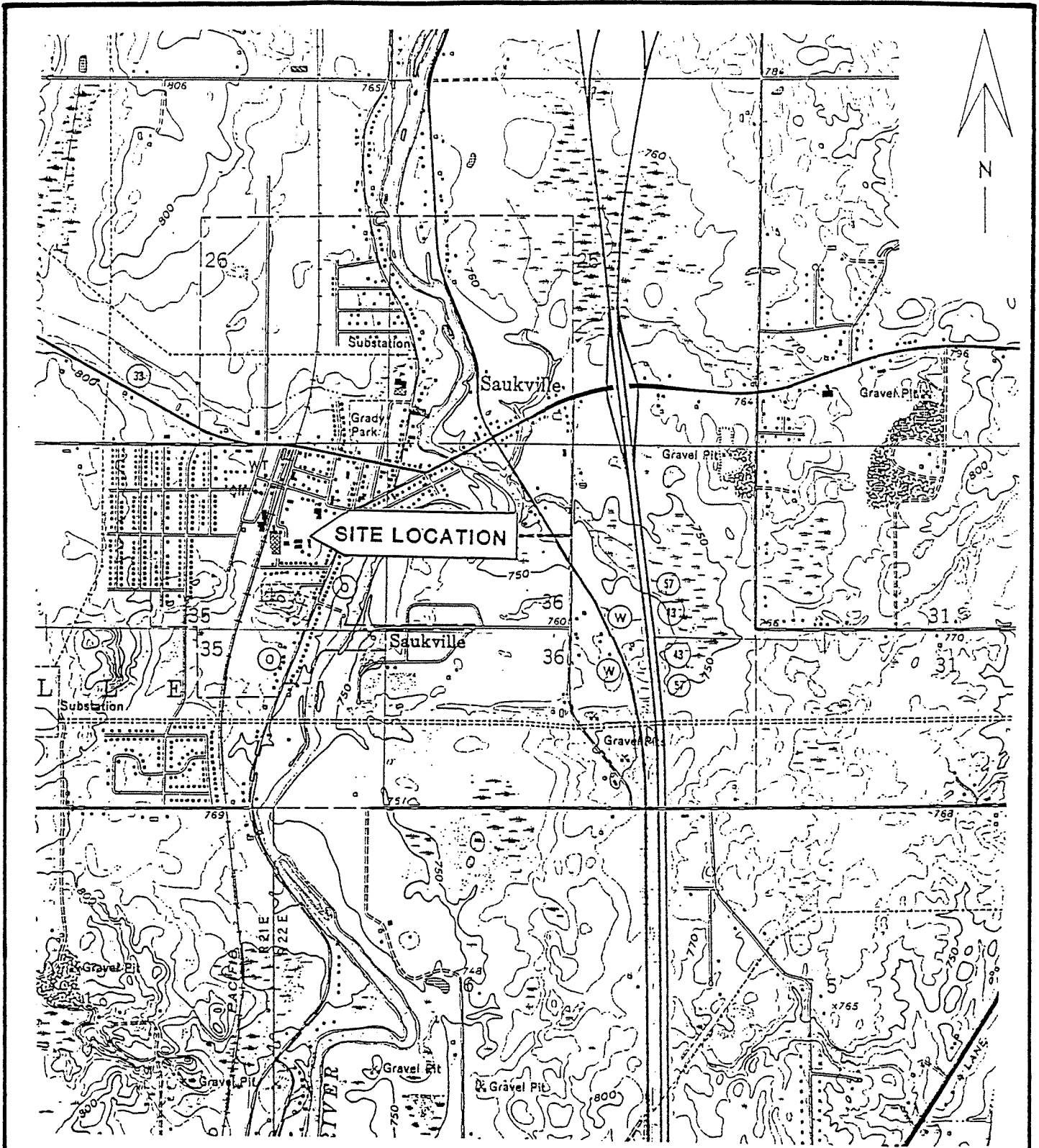
1.0 INTRODUCTION

This sampling and analysis report is submitted in response to the request from Wisconsin Department of Natural Resources for additional subsurface investigations in the Incinerator Area of the Cook Composites and Polymers Co. (formerly Freeman Chemical Corporation) Saukville Facility. The Site Location Map is presented as Figure 1 and the General Site Plan is shown as Figure 2. Background information regarding waste handling/ storage conducted at the facility is included in the Draft Closure Plan Amendment Interim-Licensed Hazardous Waste Incineration and Storage facility document submitted by Hatcher-Sayre, Inc. on May 10, 1990 to the Wisconsin Department of Natural Resources.


The purpose of this investigation is three fold. Based upon correspondence and meetings with the Wisconsin Department of Natural Resources (WDNR), Cook Composites and Polymers Co. (CCP) and Hatcher-Sayre, Inc. the following issues are to be addressed:

1. Establish the extent of contamination within the Incinerator Area and comparison of the chemical data collected to background soil conditions within the Incinerator Background Area.
2. Analyze for the presence of other organic compounds in addition to the indicator parameters within the immediate vicinity of the incinerator.
3. Investigate the physical characteristics of the soils within the Incinerator Area and develop a pilot study plan for potential remedial actions.

The following sections provide the details of the results of the Soil Sampling and Analysis Plan for the Incinerator Area which was submitted and subsequently approved by the WDNR in May, 1991.



FROM USGS 7.5' TOPOGRAPHIC QUADRANGLE: PORT WASHINGTON WEST, WISCONSIN

JOB #: 0001-001	FIGURE 1 SITE LOCATION MAP CCP SAUKVILLE, WI	 HATCHER-SAYRE, INC.
DATE: 8-22-91		
SCALE: 1:24000		
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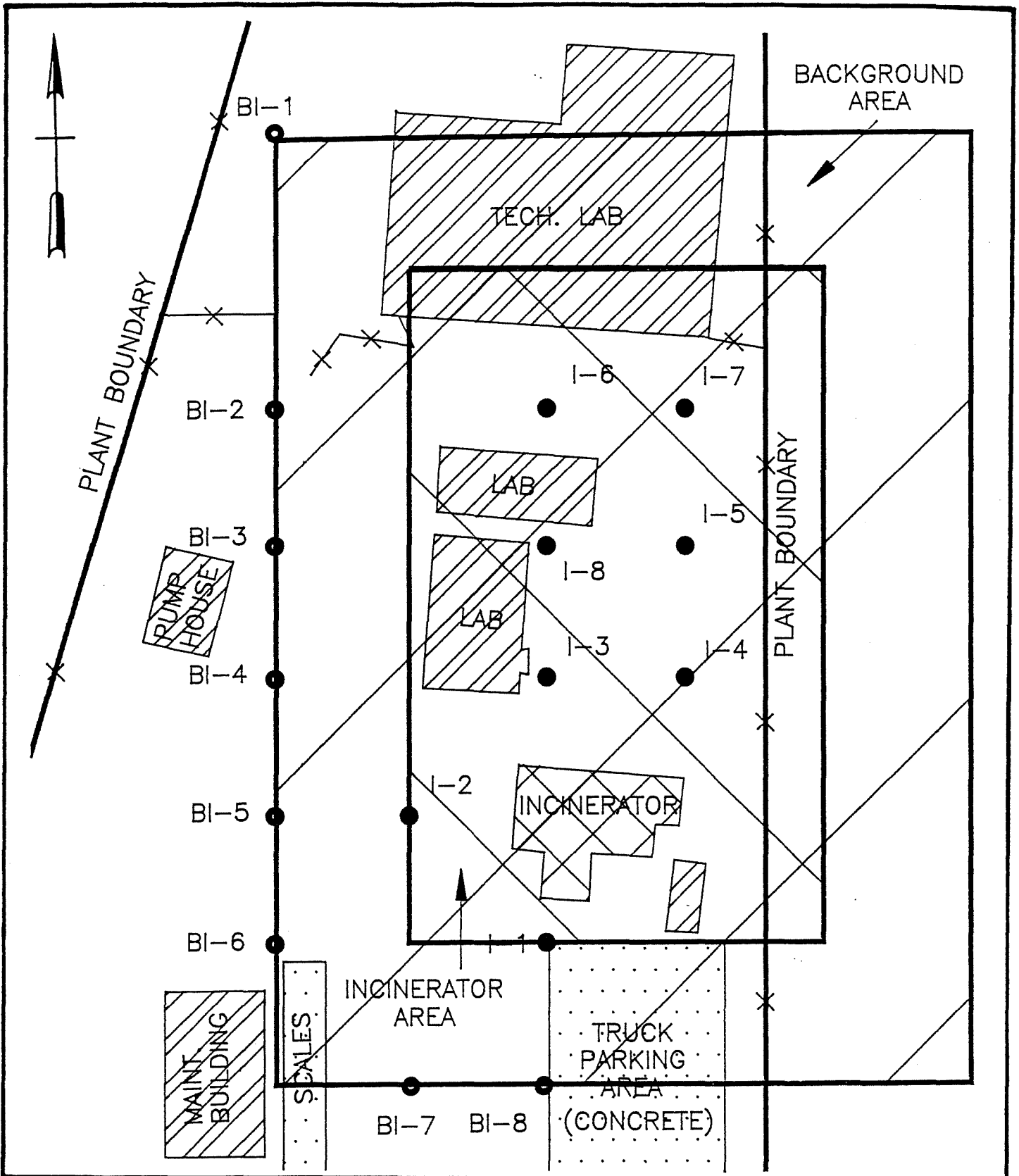
2.0 SAMPLING AND ANALYSIS

The sampling and analysis procedures described below were used to 1) establish the extent of contamination in the Incinerator Area, 2) identify target compound list (TCL), volatile and semivolatile organic parameters in the immediate vicinity of the old incinerator and 3) gather data on the physical characteristics of the soils in the Incinerator Area for subsequent remedial activities pilot study. Each of these three issues are addressed in the following sections.

2.1 Soil Sampling Methodology

In order to obtain the information necessary to establish the vertical and horizontal extent of contamination in the Incinerator Area and to establish background soil conditions, stratified soil sampling was conducted. The boring/sample locations are shown on Figure 3. The sample location grid was established using 40 foot centers on an area of 280 feet by 200 feet. This grid is based upon WDNR guidance for areal sampling. This area is referred to as the Incinerator Area Background or Background Area, the center of which is located near MW-47. As shown on Figure 3, eight (8) background soil boring locations are identified. The area referred to as the Incinerator Area, lies within the Background Area and has the dimensions of 200 feet by 140 feet. Eight (8) soil boring locations are identified on Figure 3. Prior to boring/sampling activities, the grid described above was established on-site with the boring locations marked.

Four (4) soil samples were collected from each boring at depths (centers) of two (2), five (5), eight (8) and ten (10) feet below ground surface, for subsequent chemical analyses as discussed below. The samples were obtained by using a drilling rig equipped with solid-stem continuous flight augers to drill to the appropriate sampling depth. Split-spoon samplers were used to collect soil samples from each boring at the following intervals:



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FIGURE 3
 SAMPLE LOCATION PLAN
 CCP
 SAUKVILLE, WI



HATCHER-SAYRE, INC.

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1.5 to 3 feet, 4.5 to 6 feet, 7.5 to 9 feet and 9.5 to 11 feet. In order to obtain enough sample at each interval, the required volume of soil for the analytical testing was removed from the split-spoon sampler at equal lengths (if possible) from the previously described depths (centers) of two, five, eight and ten feet. For health and safety precautions, the samples were monitored for volatile organic compounds (VOCs) as they were logged in the field using a HNU brand photoionization detector (PID) equipped with an 9.8 eV probe. The boring logs are presented as Appendix A. These samples were containerized in the appropriate sample containers immediately, labelled, placed in a cooler and maintained at the required temperature (4°C).

Following sample collection and containerization, the sample shuttles were delivered following chain of custody procedures to Wadsworth/Alert Laboratories, Inc. in North Canton, Ohio. Specific protocols concerning sample integrity are discussed in a subsequent section.

The equipment decontamination procedures used during the sampling program were as follows:

- a. The auger flights were steam cleaned between borings or before reuse.
- b. The split-spoon samplers were cleaned between sample intervals or before reuse using a soapy (alconox) water solution and rinsed with tap water and finally rinsed in distilled water and air dried.

2.2 Chemical Analyses

In order to establish the presence of chemical parameters in the Incinerator Area and the Background Area, soil samples were analyzed by SW846-Method 8020. This method is used to quantify the concentrations of various aromatic VOCs by gas chromatography (GC)/photoionization detector (PID). The rationale behind using SW846-Method 8020 is based upon the knowledge of the CCP site conditions. The current groundwater monitoring program conducted

quarterly at CCP Saukville Plant, which includes analytical testing by both EPA Method 602 (aromatic VOCs) and EPA Method 624 (VOCs), generally show the greatest concentrations of VOCs present on-site are benzene, toluene, ethylbenzene and xylenes (BTEX).

The concentrations of the VOCs detected in the Background and Incinerator Area soil samples for each sampling depth are listed in Tables 1, 2, 3 and 4 for sample intervals of 1.5 to 3, 4.5 to 6, 7.5 to 9 and 9.5 to 11 feet, respectively. The Certificates of Analysis and Chain of Custody are presented as Appendix B.

Benzene was not detected in the soil samples collected from the Incinerator Area. Two detections of benzene were recorded in the Background Area, both in BI-6 at 0.004 mg/kg at the eight (8) feet depth and at 0.01 mg/kg at the ten (10) feet depth. In general, the concentrations of BTEX were below a concentration of one (1) mg/kg individually or collectively in the Background Area samples.

The greatest concentration of total VOCs in the Incinerator Area samples occurred in I-1, I-3, I-4, I-5 and I-7 at the five (5) feet depth interval. This is the area immediately adjacent to the location of the previously operating incinerator. Xylene concentrations range from 890 mg/kg at I-5 to 12,000 mg/kg at I-3 (at the five (5) feet depth in the above listed borings). Borings I-3 and I-4 were located nearest to the old incinerator location.

In order to establish the presence of other organic compounds in the Incinerator Area, four (4) stratified soil samples from one boring (I-4) in the immediate vicinity of the Incinerator were analyzed for VOCs (SW846-Method 8240), semi-volatile organic compounds (SVOCs) by SW846-Method 8270 and a library search of unknown compounds. The library search identified the ten highest unknown concentration peaks found during Method 8240 and the twenty highest unknown concentration peaks found during Method 8270 analyses.

Tables 5, 6, 7 and 8 list the parameters detected in the soil samples collected from I-4 (in addition to the VOCs discussed

TABLE 1

Analytical Results of Soil Samples from 1.5' - 3.0' Depth

Incinerator Area		VOCs Detected (mg/kg)			
<u>Boring/Sample I.D.</u>		<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
I-1	3915	<0.4*	<0.4	2.1	11
I-2	3919	<0.9	<0.9	2	<0.9
I-3	3926	<22	74	160	740
I-4**	3930	<6.3	25	74	360
I-5	3934	<10	<10	50	260
I-6	3940	<0.002	<0.002	<0.002	0.006
I-7	3944	<0.018	<0.018	0.026	0.62
I-8	3950	<0.004	<0.004	<0.004	0.016

Background Area

BI-1	3878	<0.004	<0.004	<0.004	<0.004
BI-2	3882	<0.024	<0.024	0.04	0.79
BI-3	3886	<0.004	<0.004	0.019	0.19
BI-4	3892	<0.004	<0.004	0.009	0.17
BI-5	3895	<0.004	<0.004	0.033	0.31
BI-6	3901	<0.004	<0.004	<0.004	<0.004
BI-7	3905	<0.004	<0.004	<0.004	<0.004
BI-8	3909	<0.004	<0.004	0.031	0.15

* Denotes less than listed detection limit.

** See Table 5 for results of other tests.

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TABLE 2

Analytical Results of Soil Samples from 4.5' - 6.0' Depth

Incinerator Area		VOCs Detected (mg/kg)			
<u>Boring/Sample I.D.</u>		<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
I-1	3916	<74*	1200	1400	7000
I-2	3920	<0.3	<0.3	<0.3	2.6
I-3	3927	<430	1300	3000	12000
I-4**	3931	<63	60	460	240
I-5	3935	<20	<20	50	890
I-6	3941	<0.002	<0.002	<0.002	4
I-7	3945	<180	<180	930	6400
I-8	3951	<0.004	<0.004	<0.004	<0.004

Background Area

BI-1	3879	<0.004	<0.004	<0.004	<0.004
BI-2	3883	<0.004	<0.004	0.02	0.26
BI-3	3887	<0.004	<0.004	<0.004	<0.004
BI-4	3893	<0.004	<0.004	<0.004	<0.004
BI-5	3897	<0.004	<0.004	<0.004	<0.004
BI-6	3902	<0.004	<0.004	<0.004	0.008
BI-7	3906	<0.013	<0.013	0.013	0.008
BI-8	3910	<1.2	5.2	16	83

* Denotes less than listed detection limit.

** See Table 6 for results of other tests.

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TABLE 3

Analytical Results of Soil Samples from 7.5' - 9.0' Depth

Incinerator Area		VOCs Detected (mg/kg)			
<u>Boring/Sample I.D.</u>		<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
I-1	3917	<1*	2.6	3.5	20
I-2	3921	<0.025	<0.025	<0.025	93
I-3	3928	<9	23	76	300
I-4**	3932	<1.6	1.8	11	93
I-5	3938	<1.5	1.7	7.9	61
I-6	3942	<0.002	0.003	0.003	0.014
I-7	3946	<2	<2	14	96
I-8	3952	<0.2	0.2	1.5	5

Background Area

BI-1	3880	<0.004	<0.004	<0.004	<0.004
BI-2	3884	<0.004	0.006	0.12	0.14
BI-3	3890	<0.004	<0.004	<0.004	<0.004
BI-4	3894	<0.004	<0.004	<0.004	<0.004
BI-5	3898	<0.004	0.004	<0.004	0.011
BI-6	3903	0.004	<0.004	<0.004	0.004
BI-7	3907	<1	<1	4.7	22
BI-8	3913	<1	4.6	4.1	19

* Denotes less than listed detection limit.

** See Table 7 for results of other tests.

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TABLE 4

Analytical Results of Soil Samples from 9.5' - 11.0' Depth

Incinerator Area		VOCs Detected (mg/kg)			
<u>Boring/Sample I.D.</u>		<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>
I-1	3918	<0.5*	3.6	6.8	40
I-2	3923	<0.002	0.007	0.002	0.01
I-3	3929	<9	30	76	290
I-4**	3933	<1.3	2.5	11	82
I-5	3939	<2.4	<2.4	8.2	43
I-6	3943	<0.002	0.009	0.006	0.029
I-7	3948	<13	<13	92	670
I-8	3953	<0.2	<0.2	1.6	5.1

Background Area

BI-1	3881	<0.004	<0.004	<0.004	<0.004
BI-2	3885	<0.2	0.3	4.8	7.7
BI-3	3891	<0.004	<0.004	<0.004	<0.004
BI-4***	-	-	-	-	-
BI-5	3898	<0.004	<0.004	<0.004	<0.004
BI-6	3904	0.01	<0.004	<0.004	<0.004
BI-7	3908	<1	<1	9.8	40
BI-8	3914	<0.5	19	6.3	24

* Denotes less than listed detection limit.

** See Table 8 for results of other tests.

*** No sample obtained at this depth due to auger and sampler refusal.

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TABLE 5

Results of Expanded Analysis for I-4 from 1.5' - 3.0' Depth

<u>Compound</u>	<u>Concentrations (mg/kg)</u>
Bis (2-ethylhexyl) phthalate	0.4 ^{J,B}
1,2-Dichlorobenzene	11.0
2-Methylnaphthalene	0.770 ^J
Naphthalene	5.8
Phenanthrene	0.25 ^J
UAH*	20.0
UAH	10.0
UAH	40.0
UAH	10.0
UALH**	20.0
UAH	10.0
UAH	9.0
Hexadecanoic acid	10.0
UK***	20.0
UK	7.0
UK	6.0
UK	8.0
UK	7.0
UK	10.0
UALH	7.0
UAH	8.0
UK	5.0
UAH	6.0
Octadecanoic acid	2.0

* UAH denotes Unknown Aromatic Hydrocarbon.

** UALH denotes Unknown Aliphatic Hydrocarbon.

*** UK denotes Unknown.

^J (Detected, but below quantitation limit; estimated value)

^B (Compound detected in method blank associated with this sample).

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TABLE 6

Results of Expanded Analysis for I-4 from 4.5' - 6.0' Depth

<u>Compound</u>	<u>Concentration (mg/kg)</u>
2-Methylnaphthalene	0.830 ^J
Naphthalene	3.9
UAH*	10.0
Benzene, (1-methylethyl) -	30.0
Benzene, 1-ethyl-2-methyl-	20.0
Benzene, 1-ethyl-4-methyl-	10.0
Benzene, (1-methylethenyl)-	100.0
Trimethyl benzene isomer	20.0
UAH	20.0
UK***	5.0
UK	4.0

* UAH denotes Unknown Aromatic Hydrocarbon.

** UALH denotes Unknown Aliphatic Hydrocarbon.

*** UK denotes Unknown.

^J (Detected, but below quantitation limit; estimated value)

^B (Compound detected in method blank associated with this sample).

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TABLE 7

Results of Expanded Analysis for I-4 from 7.5' - 9.0' Depth

<u>Compound</u>	<u>Concentration (mg/kg)</u>
Trimethyl benzene isomer	1.6
Di-n-butyl phthalate	0.24 ^J
Benzoic Acid	12.0
Phenol	4.4
Dimethyl benzene isomer	50.0
Dimethyl benzene isomer	20.0
1,3-Propanediol, 2,2-dimethyl-	20.0
Trimethyl benzene isomer	2.0
UK***	8.0
UK	2.0
UK	10.0
1-Propanol, 2-(2-hydroxypropoxy)-	10.0
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-	9.0
UK	20.0
Ethyl methyl benzene isomer	3.0
UK	3.0
UK	5.0
UK	3.0
UK	3.0
UK	3.0
UK	2.0
UK	3.0
UK	2.0
UK	1.0

* UAH denotes Unknown Aromatic Hydrocarbon.

** UALH denotes Unknown Aliphatic Hydrocarbon.

*** UK denotes Unknown.

^J (Detected, but below quantitation limit; estimated value)

^B (Compound detected in method blank associated with this sample).

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TABLE 8

Results of Expanded Analysis for I-4 from 9.5' - 11.0' Depth

<u>Compound</u>	<u>Concentrations (mg/kg)</u>
Di-n-butyl phthalate	0.44 ^{J,B}
Naphthalene	0.53 ^J
Benzoic Acid	23.0
Phenol	4.0
UK***	30.0
UK	20.0
UAH*	10.0
UALH**	10.0
Ethanol, 2,2'-oxybis-	10.0
UK	20.0
UK	10.0
UK	10.0
UK	40.0
UK	2.0
UK	2.0
UK	2.0
UK	1.0
UAH	3.0
UAH	6.0
UAH	5.0
UALH	2.0

* UAH denotes Unknown Aromatic Hydrocarbon.

** UALH denotes Unknown Aliphatic Hydrocarbon.

*** UK denotes Unknown.

^J (Detected, but below quantitation limit; estimated value)

^B (Compound detected in method blank associated with this sample).

0001-001.tab/sp

previously) at sample depths of two (2), five (5), eight (8) and ten (10) feet, respectively. The compounds listed in these tables are most likely a result of one or more of the following:

1. byproducts of incomplete combustion
2. products of decomposition of process chemicals
3. various components of process chemicals

2.3 Quality Assurance/Quality Control

2.3.1 Field Records

A bound field notebook was kept during the entire sampling trip. Basic field measurements and conditions, the sequence of observations, field instrument calibration procedures, the names of the sampling team and sampling progress was recorded for later reference and documentation. The pages in the field notebook were numbered consecutively and each sampler signed the field notebook for verification of the entries. The field notebook will be kept in secured storage to maintain their integrity for future reference.

2.3.2 Sample Integrity

The field team leader was responsible for the care and custody of the samples collected until those samples were properly dispatched to the receiving laboratory or are transferred to an assigned custodian. The field team leader assured that each sample container was in his physical possession, in view at all times, or stored in a secure, locked, tamper-proof container for safekeeping.

A chain-of-custody record was completed for each sample batch and secured to the sealed sample cooler after the samples and blanks were collected/prepared. Each sample, field blank and trip blank custody change (e.g., from the field sampler to the laboratory) was documented on the chain-of-custody record.

2.3.3. Collection of Field Blanks, Field Duplicates and Trip Blanks

Field blanks and field duplicates were collected at a frequency of one for every ten samples. The field duplicates were of the same volume and containerized and labelled as the regular investigative samples. Field blanks were filled with deionized water at the location of the tenth sampling point. These blanks were obtained by routing deionized water through a decontaminated split-spoon sampler before filling the sample vials. The analytical results of the six (6) blanks and six (6) duplicates are presented in Appendix B. In general, the field duplicates agreed with the original samples collected, however, the sample showing the greatest concentrations of indicator parameters was used in Tables 1, 2, 3 and 4, the statistical calculations and in the construction of the isoconcentration maps.

The field blanks showed concentrations near the detection limit of 0.004 mg/l for toluene and xylenes. These results are listed in Appendix B.

Trip blanks were provided by the lab and accompanied each cooler containing VOC samples at the site and back to the lab. They were documented and analyzed in the same manner as the regular samples. The analytical results of the two (2) trip blanks are presented in Appendix B. Based upon the results of the Method 8240 testing, no VOCs were detected in either of these samples.

2.3.4 Sample Transportation

Transportation of samples was in sealed containers with ice to keep the samples and blanks cool (4°C). The ice was separately packaged in the container to preserve the integrity of the samples. Hatcher-Sayre, Inc. personnel shipped these collected samples, field blanks and trip blanks to Wadsworth/Alert Laboratories, Inc. by overnight air express. The reported holding times commenced on the day the sample was collected. This procedure assured that

Wadsworth/Alert had the samples no later than 3 days after sampling. This allowed adequate time to analyze the samples within the prescribed holding time.

2.3.5 Contract Laboratory QA/QC

Wadsworth/Alert Laboratories, Inc., North Canton, Ohio, is an EPA approved contract laboratory (CLP) for RCRA and Superfund sites. When samples arrived at the laboratory, they were logged in, the chain-of-custody form signed and the condition of the samples noted and recorded (i.e., any visible signs of tampering or damage).

The analytical methods used by the lab were EPA SW846 Method 8020, 8240 and 8270 as described previously. As part of their QA/QC Program, the lab included in the field sampling kits, water and containers for field blanks and trip blanks to be analyzed along with the other samples. Laboratory QA/QC procedures include using an extracted standard or spike as a quantitative check of the samples.

3.0 GEOLOGY AND HYDROGEOLOGY

3.1 Geology

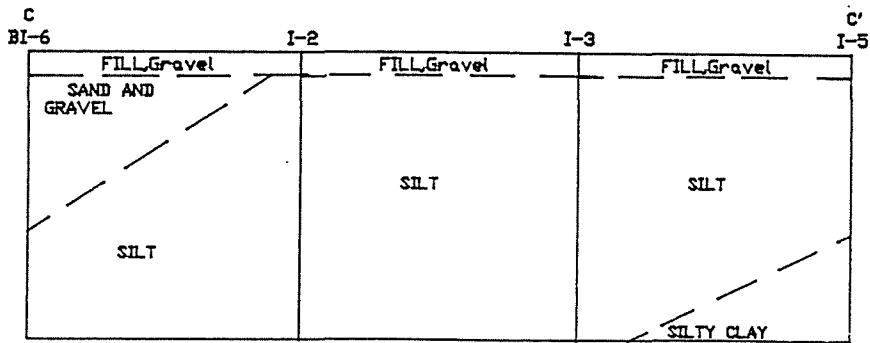
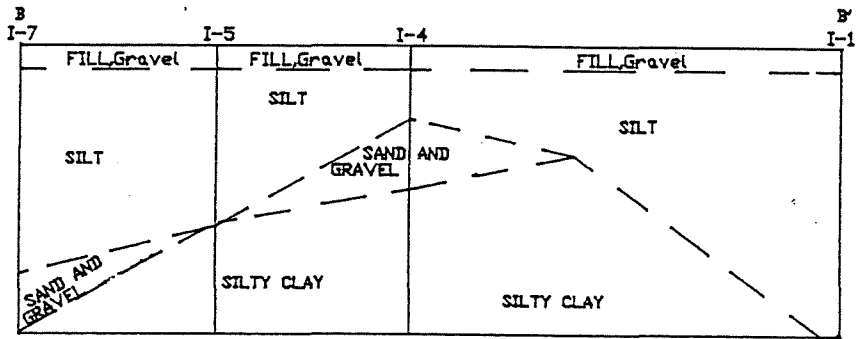
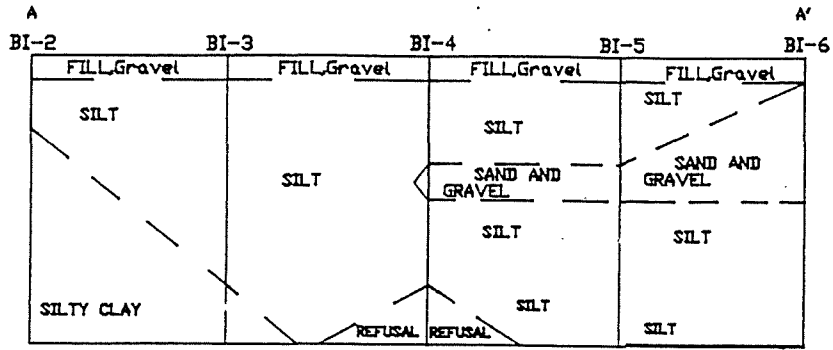
The unconsolidated glacial deposits underlying the CCP Plant consist of silt, silty clay, sand and gravel. The geologic cross-sections constructed from the boring logs presented in Appendix A are shown as Figure 4. The general stratigraphic profile in the Incinerator Area from surface to depth consists of 1 to 2 feet of gravel fill underlain by silt or silty clay with varying amounts of sand and gravel.

Classification tests were performed on six (6) split-spoon samples of soils considered generally representative of the soils underlying the Incinerator Area. Analyses were performed to establish the physical characteristics of the soils so that various remediation options can be evaluated during the next phase of work. These results are presented in Appendix C. Descriptions are in accordance with the Unified Soil Classification System.

Natural moisture content in the samples analyzed varied from 2.5% to 16% with moisture content increasing with increasing sample depth. Only two of the six samples were fine-grained. The samples are classified as silt (nonplastic) and silty clay (low plasticity). The gravel which contained varying concentrations of sand, silt and silty clay, contained predominantly nonplastic materials.

3.2 Hydrogeology

The CCP Saukville Plant current groundwater remediation program requires quarterly sampling to be conducted. As a result of these activities, the potentiometric surface has been mapped for the glacial aquifer quarterly since 1988. The potentiometric surface map for the Summer Quarterly Sampling event conducted during the week of July 8, 1991 (concurrent with the Incinerator Area sampling activities) is shown as Figure 5.



HORIZONTAL SCALE : 1"=40'
 VERTICAL SCALE : 1"=8'

JOB #: 0001-001

DATE: 8-22-91

SCALE: AS SHOWN

DRAWN BY: JKS

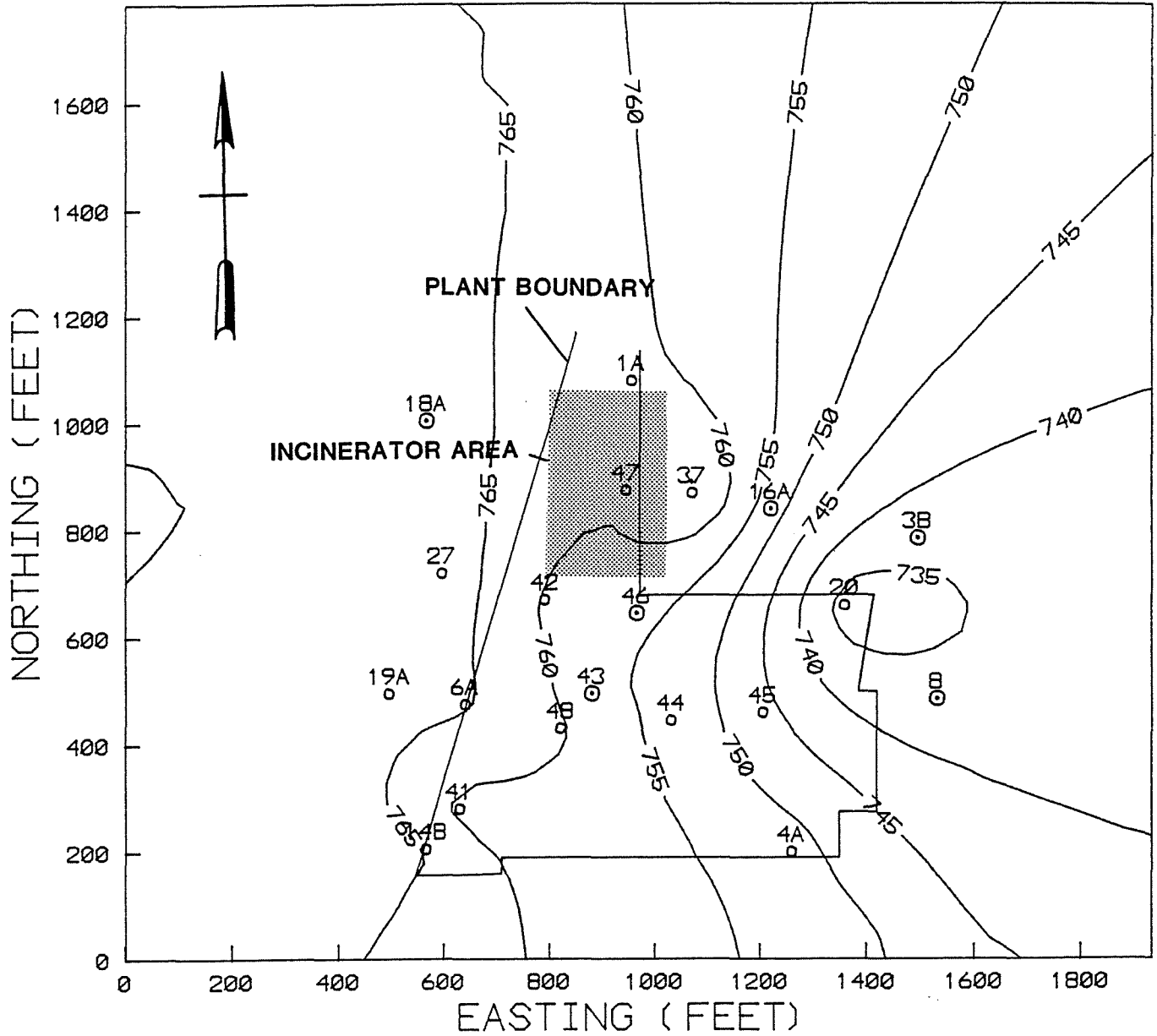
FIGURE 4
 GEOLOGIC CROSS-SECTIONS
 CCP
 SAUKVILLE, WI



HATCHER-SAYRE, INC.

164734

CONTOUR INTERVAL = 5 FEET



WATER LEVELS TAKEN WEEK OF JULY 8, 1991

JOB #: 0001-001

DATE: 8-22-91

SCALE: AS SHOWN

DRAWN BY: RDM

FIGURE 5
POTENTIOMETRIC SURFACE MAP
CCP
SAUKVILLE, WI



HATCHER-SAYRE, INC.

164734

Groundwater flow within the glacial aquifer is to the east-southeast toward the Milwaukee River. In the Incinerator Area, i.e. in the area around Well 47, the elevation of potentiometric surface is between 760 and 765 feet above mean sea level (AMSL) or approximately ten feet below the land surface (bls).

4.0 EXTENT OF CONTAMINATION

4.1 Statistical Analyses

In order to establish the relationship of the Background soils to the soils in the Incinerator Area, a non-parametric statistical test was performed on these independent data sets. The comparison of these data sets were performed based upon the sample interval, i.e. Background soils at two feet in depth were compared with the Incinerator Area soils at two feet in depth. Statistical tests were performed for BTEX parameters with non-detectable levels given a concentration of one-half the limit of detection. The statistical test used for comparison of Incinerator Area soils to the Background soils was the Wilcoxon Rank Sum Test (WRST).

The number of data for both sample sets (i.e., Incinerator Area and Background) was eight (8) or less. Gilbert (1987)¹ recommends the use of the exact WRST method for comparing populations when less than ten (10) data points are available in one or both populations. The WRST method utilized for this comparison is described in detail in Hollander and Wolf (1973)². The null hypothesis (no difference in population means) was tested against the alternative hypothesis (the populations have different means) for each of the four BTEX components and at each stratigraphic level. The results of the statistical analyses are detailed in Appendix D. In general, the results of the WRST Method indicate that the Incinerator Area soils have larger concentrations of BTEX than the Background Area soils at all stratigraphic levels.

¹ Gilbert, R.O., 1987. Statistical Methods For Environmental Pollution Monitoring. Von Nostrand Reinhold, New York, pp. 247-250.

² Hollander, M. and D. A. Wolfe, 1973. Nonparametric Statistical Methods. Wiley, New York, pp. 67-75 and Table A.5.

4.2 Isoconcentration Maps

The isoconcentration maps of total BTEX for the Background and Incinerator Area stratigraphic levels of two (2), five (5), eight (8) and ten (10) feet bls are included as Appendix E. Because of the similarity between the isoconcentration maps for the individual BTEX parameters, total BTEX was used for this report. WDNR representatives concurred to this approach on August 14, 1991. The greatest concentrations of BTEX are located adjacent to Borings I-3 and I-4 and as discussed previously, the 4.5 to 6.0 feet interval shows the greatest concentrations within the Incinerator Area. This is the area adjacent to the old incinerator location. The concentrations of total BTEX generally decrease dramatically within a 40 feet radius from the old incinerator location to concentrations of less than 1 mg/kg.

5.0 CONCLUSIONS

Based upon the information gathered during the field activities and laboratory analyses conducted during this investigation, the following conclusions are presented:

1. Concentrations of indicator parameters (BTEX) in the Incinerator Area are significantly (statistically) greater than the Background Area.
2. Additional chemical compounds were detected in the samples collected immediately adjacent to the old incinerator location.
3. The concentration gradient associated with the Incinerator Area investigation shows a sharp decrease in BTEX concentrations within a 40 feet radius from the old incinerator location.
4. The concentrations of BTEX generally decrease with increasing depth from the land surface with the greatest concentrations found at five feet in depth in the Incinerator Area.
5. The unconsolidated glacial deposits underlying the Plant consist of silty clay to gravel.
6. Based upon the physical characteristics of selected soil samples, a soil vapor extraction/enhanced bioremediation program is a potential remedial actions alternative. The feasibility of the system will be addressed in the Closure Plan.

A groundwater remediation program has been in progress at the Plant since 1987, and based upon the information presented in this

report, the current groundwater remediation program at the CCP Saukville Plant should continue to intercept contaminates moving through the glacial deposits in the Incinerator Area.

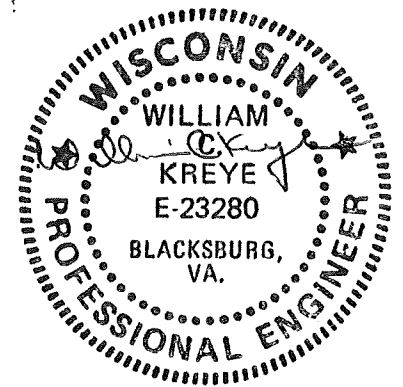
The Incinerator Closure Plan for the CCP Saukville Plant will be submitted to the WDNR subsequent to this report and will detail the proposed actions to be taken.

HATCHER-SAYRE, INC.

Robert D. Money
Robert D. Money, P.G.
Project Hydrogeologist

William C. Kreye
William C. Kreye, Ph.D., P.E.
V. P., Engineering

August 22, 1991
0001-001.rpt/sp



APPENDIX A
Boring Logs

**State of Wisconsin
Department of Natural Resources**

Instructions
Soil Boring Log Information Forms
Form 4400-122, Form 4400-122A
(7/91)

General Instructions

Fill out a Soil Boring Log Information form for every boring drilled. Be sure to indicate the page number and boring number in the blanks at the top of each page. All applicable portions of the Soil Boring Log Information Form must be properly completed. The form must be signed.

Routing

Return this form to the project manager or plan reviewer for the Department program that required the boring. If the project manager/plan reviewer is in a District Office, send the original to the District Office and a copy to the Central Office in Madison. If the project manager/plan reviewer is in the Central Office, send the original form there and a copy to the District Office. If your project does not have a project manager or plan reviewer or you do not know who it is, send the form to the appropriate program in the Central Office.

Check the appropriate box at the top of the form to assure proper routing once the form reaches the Department. If the boring was installed as a part of a Superfund investigation, check the box labeled "Emergency Response".

General Boring Information

Facility/Project Name: The name of the landfill, lagoon, surface impoundment, spill or project.

License/Permit/Monitoring Number: The number assigned by the Department. If unknown, leave blank.

Boring Number: The site boring number or name (ie. B-1).

Boring Drilled By: The name of the drilling firm and the name of the drilling crew chief.

Date Drilling Started: The date the boring was started.

Date Drilling Completed: The date the boring was completed.

Drilling Method: The drilling method(s) used (ie. hollow stem auger).

DNR Facility Well Number: Leave blank. The Department will assign this number if needed.

Wisconsin Unique Well Number: Leave blank. The Department will assign this number if needed.

Common Well Name: The site well name if a well was constructed in the boring (ie. MW-1).

Final Static Water Level: The static water level in the borehole in tenths of feet above mean sea level prior to abandonment or well construction.

Surface Elevation: The surface elevation of the ground surface at the borehole in tenths of feet above mean sea level referenced to the closest USGS benchmark.

Borehole Diameter: The diameter of the borehole in tenths of inches.

NOTES TO BORING LOGS

These notes refer to and are a part of the accompanying boring logs.

1. The borings were made by a boring contractor under the continuous observation of an engineer of Hatcher-Sayre, Inc. These boring logs were compiled from Hatcher-Sayre, Inc. field logs and the results of visual examination of the soil samples in our laboratory.
2. The logs of the borings apply only at the specific boring locations and at the dates indicated. They are not warranted to be representative of subsurface conditions at other locations and times.
3. The depth of the indicated boundaries between soil or rock strata is approximate. The transition between the strata may be gradual.
4. The groundwater levels shown on the boring logs represent average or typical values observed during the period of the boring operation or shortly after completion of a boring. These observations do not reflect seasonal changes in the water table or the effects of intense rainfall or runoff. In any excavation, trickling flow or seepage may be encountered from perched water which is at levels above the water table observed in the borings.

NOTES TO BORING LOGS (continued)

Definitions of Terms and Abbreviations

Components

- GRAVEL - particles larger than 1/4" diameter
- SAND - particles smaller than 1/4" diameter and larger than No. 200 sieve (individual grains visible to naked eye)
- SILT - particles smaller than No. 200 sieve (individual grains not distinguishable); low plasticity to non-plastic
- CLAY - particles smaller than No. 200 sieve; medium to high plasticity
- TOPSOIL - surface soil containing a significant proportion of organic matter
- FILL - man-made deposit

Composition

- GRAVEL, SAND, SILT, CLAY
 - major component (50% or more)
- gravelly, sandy, silty, clayey
 - secondary component (33% to 50%)
- some
 - minor component (10% to 33%)
- trace
 - minor component (1% to 10%)
- and
 - two major components (nearly equal proportions)

Moisture

- saturated - below water table
- wet - much above optimum
- moist - near optimum
- dry - much below optimum

Structure

- stratified - layers 1/2 to 12 inches thick
- laminated - layers less than 1/2 inch thick

Color

- dark, light - significant difference in shade
- mottled - irregularly colored (usually indicates lack of drainage)

WOH

- weight of hammer

RQD

- rock quality designation (% of core which is 4" or longer)

NSR

- no sample recovered

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number	Boring Number BI-1
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y	Date Drilling Completed 07/09/91 M M D D Y Y
DNR Facility Well No.	WI Unique Well No.	Common Well Name	Drilling Method 4" O.D. SOLID STEM AUGER
Boring Location State Plane N, E S/C/N		Final Static Water Level - Feet MSL	Surface Elevation - Feet MSL
Boring Location State Plane NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 EW		Lat 43 23 03	Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County OZAUKEE COUNTY		DNR County Code 4 6	Civil Town/City/ or Village SAUKVILLE, WI

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
3878	4-5-6	-	1	Gravel, Probable FILL										
			2	Brown fine sandy SILT, moist	ML			0.0						
			3											
3879	11-5-6	-	5	Light brown SILTY CLAY, moist	CL-ML			0.0						
			6											
			7											
3880	9-11-16	-	8	Brown SILTY CLAY, wet	CL-ML			0.0						
			9											
3881	19-50/1"	-	10	Brown SILTY CLAY, wet	CL-ML			0.0						
			11											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Route To:
 Solid Waste
 Emergency Response
 Wastewater
 Haz. Waste
 Underground Tanks
 Water Resources
 Other

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number BI-2		Boring Number BI-2	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y		Date Drilling Completed 07/09/91 M M D D Y Y	
DNR Facility Well No. / WI Unique Well No.		Common Well Name BI-2		Final Static Water Level - Feet MSL	
Boring Location State Plane _____ N, _____ E S/C/N		Lat 43 23 03		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County OZAUKEE COUNTY		DNR County Code 4 6		Civil Town/City/ or Village SAUKVILLE, WI	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
3882	6-6-6	1	1	Gravel, Probably FILL										
			2	Green fine sandy SILT, moist	ML			0.2						
			3											
3883	13-12-9	5	5	Light brown SILTY CLAY, moist	CL-ML			1.0						
			6											
			7											
3884	7-8-9	8	8	Light brown SILTY CLAY, wet	CL-ML			6.4						
			9											
3885	11-11-15	10	10	Light brown SILT, wet	ML			9.4						
			11											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *J. K. Stead* Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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Route To:
 Solid Waste
 Emergency Response
 Wastewater
 Haz. Waste
 Underground Tanks
 Water Resources
 Other

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number BI-3		Boring Number BI-3	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y		Date Drilling Completed 07/09/91 M M D D Y Y	
DNR Facility Well No. / WI Unique Well No.		Common Well Name BI-3		Final Static Water Level - Feet MSL	
Boring Location State Plane _____ N, _____ E S/C/N		Lat 43 23 03		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County OZAUKEE COUNTY		DNR County Code 4 6		Civil Town/City/ or Village SAUKVILLE, WI	
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 (E/W)		Long 87 56 25			

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3886	5-5-6		2	Green SILT, wet	ML			2.2							
3887	12-7-6		5	Greenish brown SILT, wet	ML			0.4							
3890	6-10-17		8	Light brown SILT, saturated	ML			0.0	15.9	15	13.4	96.6			
3891	22-18-17		10	Gray fine SILTY CLAY, saturated	CL - ML			0.0	13.5	18	13.4	92.3			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number		Boring Number BI-4	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07 / 09 / 91 M M D D Y Y		Date Drilling Completed 07 / 09 / 91 M M D D Y Y	
DNR Facility Well No. / WI Unique Well No.		Common Well Name BI-4		Final Static Water Level ____ Feet MSL	
Boring Location State Plane _____ N, _____ E S/C/N		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Drilling Method 4" O.D. SOLID STEM AUGER	
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 (E)W		Long 87 56 25		Surface Elevation ____ Feet MSL	
County OZAUKEE COUNTY		DNR County Code 4 6		Civil Town/City/ or Village SAUKVILLE, WI	

Sample Number	Sample Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RCD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3892	4-4-6		2	Brownish green SILT, moist	ML			1.4							
3893	24-21-14		5	Brown silty fine to coarse SAND and GRAVEL, moist	GM			0.0	10.6	16	14.6	12.3			
3894	5-7-12		8	Brown SILT, saturated	ML			0.0							
			9												
			10												
			11												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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Route To:
 Solid Waste
 Emergency Response
 Wastewater
 Haz. Waste
 Underground Tanks
 Water Resources
 Other _____

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number BI-5		Boring Number BI-5	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y		Date Drilling Completed 07/09/91 M M D D Y Y	
DNR Facility Well No. / WI Unique Well No.		Common Well Name BI-5		Final Static Water Level ____ Feet MSL	
				Surface Elevation ____ Feet MSL	
				Borehole Diameter 4" inches	
Boring Location State Plane _____ N, _____ E S/C/N		Lat 43 23 03		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 E/W		Long 87 56 25		____ Feet	
County OZAUKEE COUNTY		DNR County Code 4 6		Civil Town/City/ or Village SAUKVILLE, WI	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3895	8-4-3		2	Light brown fine sandy SILT, moist	ML			0.8							
3876	5-7-6		5	Light brown clayey GRAVEL with sand - moist	GC			0.0	16	40	10.5	31.6			
3897	11-20-13		8	Light brown fine sandy SILT, some clay, saturated	MH			0.0							
3898	13-16-17		10	Light brown fine sandy SILT, some clay, saturated	MH			0.6							

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Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number BI-6		Boring Number BI-6	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y		Date Drilling Completed 07/09/91 M M D D Y Y	
DNR Facility Well No. WI Unique Well No.		Common Well Name BI-6		Final Static Water Level - Feet MSL	
Boring Location State Plane _____ N, _____ E S/C/N		Lat 43 23 03		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County OZAUKEE COUNTY		DNR County Code		Civil Town/City/ or Village SAUKVILLE, WI	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3901	16-19		2	Light brown silty fine to coarse GRAVEL with sand.	GM			0.0	2.5	16	14.2	32.8			
3902	7-12		5	Brown silty fine to coarse GRAVEL with sand	GW			0.0	8.6	18	14.8	2.7			
3903	10-15		8	Brown fine sandy SILT, saturated	ML			1.4							
3904	8-18		10	Brown SILT, moist	ML			0.2							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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Route To:
 Solid Waste
 Emergency Response
 Wastewater
 Haz. Waste
 Underground Tanks
 Water Resources
 Other

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number -----	Boring Number BI-7
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 MM DD YY	Date Drilling Completed 07/09/91 MM DD YY
DNR Facility Well No.	WI Unique Well No.	Common Well Name BI-7	Drilling Method 4" O.D. SOLID STEM AUGER
Boring Location State Plane _____ N, _____ E S/C/N		Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL
____ NE 1/4 of NE 1/4 of Section 35, T 11 N, R 23 (E)W		Local Grid Location (If applicable) ____ Feet	Borehole Diameter 4" inches
County OZAUKEE COUNTY		DNR County Code _____	Civil Town/City/ or Village SAUKVILLE, WI

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3905	48-10-6		2	Brown fine to coarse sandy SILT, some gravel, moist	ML			8.0							
3906	13-20-15		5	Gray silty fine to coarse GRAVEL, moist	GW			30.0							
3907	6-6-9		8	Brown fine sandy SILT, saturated	ML			80.0							
3908	6-19-29		10	Brown SILT, moist	ML			120.0							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number _____	Boring Number BI-8
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 MM DD YY	Date Drilling Completed 07/09/91 MM DD YY
DNR Facility Well No. _____	WI Unique Well No. _____	Common Well Name BI-8	Final Static Water Level ____ Feet MSL
Boring Location State Plane _____ N, _____ E S/C/N		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	Drilling Method 4" O.D. SOLID STEM AUGER
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 E/W		Long 87 56 25	Surface Elevation ____ Feet MSL
County OZAUKEE COUNTY		DNR County Code 4 6	Civil Town/City/ or Village SAUKVILLE, WI

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
3909		13-3-4	1	Gravel, Probable FILL										
			2	Brown SILT, some fine to coarse gravel, moist	ML			190.0						
			3											
3910	14-21-19	5	Brown SILT, some fine to coarse gravel, moist	ML			64.0							
		6												
		7												
3913	5-4-9	8	Brown fine sandy SILT, saturated	ML			78.0							
		9												
3914	14-10-19	10	Brown fine sandy SILT, wet	ML			114.0							
		11												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number I-1	Boring Number I-1
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y	Date Drilling Completed 07/09/91 M M D D Y Y
DNR Facility Well No. WI Unique Well No.		Common Well Name I-1	Final Static Water Level Feet MSL
Boring Location State Plane _____ N, _____ E S/C/N		Surface Elevation Feet MSL	Borehole Diameter 4" inches
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 E W		Local Grid Location (If applicable) Feet _____	Drilling Method SOLID STEM AUGER
County OZAUKEE COUNTY		DNR County Code 4 6	Civil Town/City/ or Village SAUKVILLE, WI

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3915	7-6-6		2	Greenish brown SILT, moist	ML			120.0							
3916	10-15-26		5	Greenish brown SILT, some fine to coarse gravel, moist	ML			540.0							
3917	8-6-6		8	Brown SILT, some fine sand, saturated	ML			560.0							
3918	14-12-17		10	Brown SILT, some fine sand, saturated	ML			120.0							

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Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number I-2		Boring Number I-2	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 MM/DD/YY		Date Drilling Completed 07/09/91 MM/DD/YY	
DNR Facility Well No. WI Unique Well No.		Common Well Name I-2		Final Static Water Level Feet MSL	
Boring Location State Plane _____ N, _____ E S/C/N		Lat 43 23 03		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County OZAUKEE COUNTY		DNR County Code 4 6		Civil Town/City/ or Village SAUKVILLE, WI	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3919	4-6		2	Brown SILT, moist	ML			10.0							
3920	9-18-21		5	Brown fine to medium sandy SILT, wet	ML			40.0							
3921	5-11-10		8	Brown SILT, some fine sand, saturated	ML			20.0							
3923	16-21-16		10	Brown SILT, some fine sand, saturated	ML			1.0							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Handwritten Signature]* Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number I-3	Boring Number I-3
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y	Date Drilling Completed 07/09/91 M M D D Y Y
DNR Facility Well No.	WI Unique Well No.	Common Well Name I-3	Final Static Water Level - Feet MSL
Boring Location State Plane _____ N, _____ E S/C/N		Lat 43 23 03	Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet
County OZAUKEE COUNTY		DNR County Code 4 6	Civil Town/City/ or Village SAUKVILLE, WI
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 (E)W		Long 87 56 25	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
3926		4-8-8	1	Gravel, Probable FILL										
			2	Dark brown SILT, moist	ML			500.0						
			3											
3927	2-5-8	5	Greenish brown fine sandy SILT, wet	ML			580.0							
		6												
3928	3-7-8	8	Light brown SILT, some fine sand, saturated	ML			500.0							
		9												
3929	10-14-16	10	Gray green SILT, saturated	ML			560.0							
		11												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm: HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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Route To:
 Solid Waste
 Emergency Response
 Wastewater
 Haz. Waste
 Underground Tanks
 Water Resources
 Other _____

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number I-4		Boring Number I-4	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y		Date Drilling Completed 07/09/91 M M D D Y Y	
DNR Facility Well No. / WI Unique Well No.		Common Well Name I-4		Final Static Water Level ____ Feet MSL	
Boring Location State Plane NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 E/W		Local Grid Location (If applicable) Lat 43 23 03 Long 87 56 25		Surface Elevation ____ Feet MSL	
County OZAUKEE COUNTY		DNR County Code 4 6		Civil Town/City/ or Village SAUKVILLE, WI	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
3930		5- 5- 5	1	Gravel, Probable FILL										
			2	Brown SILT, some fine to coarse sand, moist	ML			--						
			3											
3931		12- 28- 22	5	Grayish brown silty fine to coarse GRAVEL, wet	GW			--						
			6											
3932		4- 5- 7	8	Grayish brown SILTY CLAY, wet	CL- ML			260.0						
			9											
3933		9- 13- 13	10	Grayish brown SILT, trace clay, trace fine to medium sand, wet	MH			280.0						
			11											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:
 Solid Waste
 Emergency Response
 Wastewater
 Haz. Waste
 Underground Tanks
 Water Resources
 Other _____

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number _____	Boring Number I-5
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y	Date Drilling Completed 07/09/91 M M D D Y Y
DNR Facility Well No. / WI Unique Well No. _____		Common Well Name _____	Final Static Water Level _____ Feet MSL
Boring Location State Plane _____ N, _____ E S/C/N		Local Grid Location (If applicable) _____ Feet	Drilling Method 4" O.D. SOLID STEM AUGER
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 E W		Long 87 56 25	Surface Elevation _____ Feet MSL
County OZAUKEE COUNTY		DNR County Code 4 6	Civil Town/City/ or Village SAUKVILLE, WI

Sample Number	Sample Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3934		5-5	2	Dark gray SILT, moist	ML			320.0							
3935		8-21-18	5	Dark gray fine to coarse sandy SILT, wet	ML			200.0							
3938		6-7-8	8	Gray SILTY CLAY, moist	CL			60.0							
3939		6-18-35/3	10	Gray SILTY CLAY, saturated	CL ML			60.0							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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Route To:

- Solid Waste
 Emergency Response
 Wastewater
 Haz. Waste
 Underground Tanks
 Water Resources
 Other _____

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number _____	Boring Number I-6
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M / D D / Y Y	Date Drilling Completed 07/09/91 M M / D D / Y Y
DNR Facility Well No. WI Unique Well No.	Common Well Name I-6	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL
Boring Location State Plane _____ N, _____ E S/C/N		Lat 43 23 03	Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County OZAUKEE COUNTY		DNR County Code 4 6	Civil Town/City/ or Village SAUKVILLE, WI
NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 (E)W		Long 87 56 25	____ Feet

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
3940			1	Gravel, Probable FILL										
			1-1-1	2	Dark gray fine to coarse sandy SILT, moist	ML			--					
				3										
3941		9-19-20	5	Brown SILT, some fine to coarse sand and gravel, moist	ML			20.0						
			6											
3942	6-6-7		8	Brown SILTY CLAY, wet	CL-ML			0.0						
			9											
3943	9-11-13		10	Brown SILTY CLAY, wet	CL-ML			0.0						
			11											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number _____		Boring Number I-7	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y		Date Drilling Completed 07/09/91 M M D D Y Y	
DNR Facility Well No. / WI Unique Well No.		Common Well Name I-7		Final Static Water Level ____ Feet MSL	
Boring Location State Plane _____ N, _____ E S/C/N		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Lat 43 23 03 Long 87 56 25	
County OZAUKEE COUNTY		DNR County Code 4 6		Civil Town/City/ or Village SAUKVILLE, WI	

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3944	19-8-7		2	Brown SILT, some fine sand, moist	ML			100.0							
3945	5-7-9		5	Brown fine sandy SILT, wet	ML			480.0							
3946	8-7-9		8	Brown fine to coarse sandy SILT, wet	ML			--							
3948	9-30-35		10	Gray silty fine to coarse SAND and GRAVEL, saturated	GW			--							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Facility/Project Name COOK COMPOSITES AND POLYMERS CO.		License/Permit/Monitoring Number I-8		Boring Number I-8	
Boring Drilled By (Firm name and name of crew chief) FOX DRILLING, INC./ BEN FOX		Date Drilling Started 07/09/91 M M D D Y Y	Date Drilling Completed 07/09/91 M M D D Y Y	Drilling Method 4" O.D. SOLID STEM AUGER	
DNR Facility Well No.	WI Unique Well No.	Common Well Name I-8	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 4" inches
Boring Location State Plane _____ N, _____ E S/C/N NE 1/4 of NE 1/4 of Section 35, T 11 N, R 21 E W			Local Grid Location (If applicable) Lat 43 23 03 Long 87 56 25 <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County OZAUKEE COUNTY		DNR County Code 4 6	Civil Town/City/ or Village SAUKVILLE, WI		

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PI/DY/FID	Soil Properties					ROD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Gravel, Probable FILL											
3950	3-3-5		2	Dark gray SILTY CLAY, moist	CL-ML			0.0							
3951	30-25-13		5	Gray silty fine to coarse GRAVEL, wet	GW			0.0							
3952	6-5-8		8	Light brown SILTY CLAY, saturated	CL-ML			1.8							
3953	12-4-5		10	Light brown SILTY CLAY, saturated	CL-ML			11.0							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

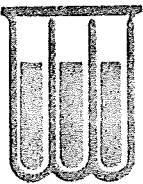
Signature Firm HATCHER-SAYRE, INC. 905 SOUTHLAKE BLVD. RICHMOND, VA 23236

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APPENDIX B

Certificates of Analyses and Chain of Custody

Since 1938



WADSWORTH/ALERT
LABORATORIES, INC.
Sampling, testing, mobile labs

4101 Shuffel Drive N.W. / North Canton, Ohio 44720

August 16, 1991

Hatcher Sayre, Inc.
905 South Lake Boulevard
Richmond, VA 23236

Attn: Bob Money

Enclosed are two copies of the revised analytical report (# 7034) for the Saukville Incinerator Closure project. The following revisions were made to the original report:

- All units for the VOC, Method 8240 were converted to micrograms.
- The Quality Control narrative includes a definition for surrogate recoveries which are referenced as "DIL" in the report.

If you need additional information feel free to contact me at 216/497-9396.

Sincerely,

Wadsworth/ALERT Laboratories, Inc.

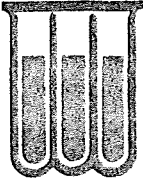
Michael A. Paessun
Project Manager

MAP/pt



CORPORATE AND LABORATORY: North Canton, Ohio (216) 497-9396
LABORATORY: Cleveland, Ohio (216) 642-9151
LABORATORY: Pittsburgh, Pennsylvania (412) 826-5477
LABORATORY: Tampa, Florida (813) 621-0784
24-HOUR ALERT LINE (216) 497-9338

Since 1938



WADSWORTH/ALERT
LABORATORIES, INC.
Sampling, testing, mobile labs

4101 Shuffel Drive N.W. / North Canton, Ohio 44720

**REVISED
ANALYTICAL REPORT**

PROJECT NO. 0001-001

CCP - SAUKVILLE INCIN. CLOSURE

Presented to :

BOB MONEY

HATCHER-SAYRE INC.

WADSWORTH/ALERT LABORATORIES, INC.

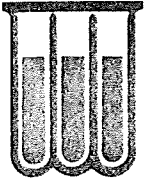
**Michael A. Paessun
Project Manager**

**Marvin W. Stephens, Ph.D.
Vice President & Corporate Technical Director**

August 16, 1991



CORPORATE AND LABORATORY: North Canton, Ohio (216) 497-9396
LABORATORY: Cleveland, Ohio (216) 642-9151
LABORATORY: Pittsburgh, Pennsylvania (412) 826-5477
LABORATORY: Tampa, Florida (813) 621-0784
24-HOUR ALERT LINE (216) 497-9338



WADSWORTH/ALERT
LABORATORIES, INC.

NARRATIVE

The following report contains the analytical results for sixty-nine solid samples and nine quality control samples submitted to Wadsworth/ALERT Laboratories, Inc. by Hatcher-Sayre Inc. from the CCP-Saukville Incin. Closure Site, project number 0001-001. The samples were received on July 11, 1991, according to documented sample acceptance procedures.

Wadsworth/ALERT Laboratories, Inc. utilizes only USEPA approved methods and instrumentation in all analytical work. The samples presented in this report were analyzed for the parameters listed in the following table in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

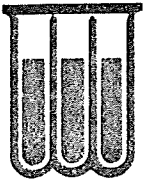
Compounds detected during analysis but not contained on the method lists are also included.

ANALYTICAL METHODS

<u>Parameters</u>	<u>Methods</u>
Volatile Organic Compounds	SW846 8240
Volatile Organic Compounds	SW846 8020
Base/Neutral/Acid Compounds	SW846 8270

Reference:

SW846. "Test methods for Evaluating Solid Waste Physical/Chemical Methods," Third Edition, September, 1986.

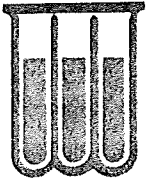


WADSWORTH/ALERT
LABORATORIES, INC.

ANALYTICAL RESULTS

The analytical results of the samples listed below are presented on the following pages.

LABORATORY NUMBER	SAMPLE IDENTIFICATION
7034-57438	3878 BI-1 1.5-3 7-9-91 7:40
7034-57439	3879 BI-1 4.5-6 7-9-91 7:45
7034-57440	3880 BI-1 7.5-9 7-9-91 7:50
7034-57441	3881 BI-1 9.5-11 7-9-91 7:55
7034-57442	3882 BI-2 1.5-3 7-9-91 8:15
7034-57443	3883 BI-2 4.5-6 7-9-91 8:20
7034-57444	3884 BI-2 7.5-9 7-9-91 8:25
7034-57445	3885 BI-2 9.5-11 7-9-91 8:30
7034-57446	3886 BI-3 1.5-3 7-9-91 8:45
7034-57447	3887 BI-3 4.5-6 7-9-91 8:50
7034-57448	3888 BI-3 4.5-6 7-9-91 8:50
7034-57449	3889 FB-1 7-9-91 8:50
7034-57450	3890 BI-3 7.5-9 7-9-91 8:55
7034-57451	3891 BI-3 9.5-11 7-9-91 8:59
7034-57452	3892 BI-4 1.5-3 7-9-91 9:40
7034-57453	3893 BI-4 4.5-6 7-9-91 9:45
7034-57454	3894 BI-4 7.5-9 7-9-91 9:50
7034-57455	3895 BI-5 1.5-3 7-9-91 10:25
7034-57456	3896 BI-5 4.5-6 7-9-91 10:30
7034-57457	3897 BI-5 7.5-9 7-9-91 10:35
7034-57458	3898 BI-5 9.5-11 7-9-91 10:40
7034-57459	3899 BI-5 9.5-11 7-9-91 10:40
7034-57460	3900 FB-2 7-9-91 10:40
7034-57461	3901 BI-6 1.5-3 7-9-91 10:50
7034-57462	3902 BI-6 4.5-6 7-9-91 10:55
7034-57463	3903 BI-6 7.5-9 7-9-91 11:00
7034-57464	3904 BI-6 9.5-11 7-9-91 11:05

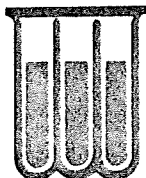


WADSWORTH/ALERT
LABORATORIES, INC.

ANALYTICAL RESULTS CONT.

The analytical results of the samples listed below are presented on the following pages.

LABORATORY NUMBER	SAMPLE IDENTIFICATION
7034-57465	3905 BI-7 1.5-3 7-9-91 11:25
7034-57466	3906 BI-7 4.5-6 7-9-91 11:30
7034-57467	3907 BI-7 7.5-9 7-9-91 11:35
7034-57468	3908 BI-7 9.5-11 7-9-91 11:40
7034-57469	3909 BI-8 1.5-3 7-9-91 11:55
7034-57470	3910 BI-8 4.5-6 7-9-91 12:00
7034-57471	3911 BI-8 4.5-6 7-9-91 12:00
7034-57472	3912 FB-3 7-9-91 12:00
7034-57473	3913 BI-8 7.5-9 7-9-91 12:05
7034-57474	3914 BI-8 9.5-11 7-9-91 12:10
7034-57475	3915 I-1 1.5-3 7-9-91 12:35
7034-57476	3916 I-1 4.5-6 7-9-91 12:40
7034-57477	3917 I-1 7.5-9 7-9-91 12:45
7034-57478	3918 I-1 9.5-11 7-9-91 12:50
7034-57479	3919 I-2 1.5-3 7-9-91 13:30
7034-57480	3920 I-2 4.5-6 7-9-91 13:35
7034-57481	3921 I-2 7.5-9 7-9-91 13:40
7034-57482	3922 I-2 9.5-11 7-9-91 13:45
7034-57483	3923 I-2 9.5-11 7-9-91 13:45
7034-57484	3924 FB-4 7-9-91 13:45
7034-57485	3925 FIELD BLANK 7-9-91 13:48
7034-57486	3926 I-3 1.5-3 7-9-91 13:55
7034-57487	3927 I-3 4.5-6 7-9-91 14:00
7034-57488	3928 I-3 7.5-9 7-9-91 14:05
7034-57489	3929 I-3 9.5-11 7-9-91 14:10
7034-57490	3930 I-4 1.5-3 7-9-91 14:20
7034-57491	3931 I-4 4.5-6 7-9-91 14:25

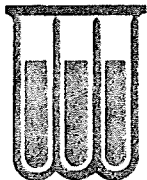


WADSWORTH/ALERT
LABORATORIES, INC.

ANALYTICAL RESULTS CONT.

The analytical results of the samples listed below are presented on the following pages.

LABORATORY NUMBER	SAMPLE IDENTIFICATION
7034-57492	3932 I-4 7.5-9 7-9-91 14:30
7034-57493	3933 I-4 9.5-11 7-9-91 14:35
7034-57494	3934 I-5 1.5-3 7-9-91 15:00
7034-57495	3935 I-5 4.5-6 7-9-91 15:05
7034-57496	3936 I-5 4.5-6 7-9-91 15:05
7034-57497	3937 FB-5 7-9-91 15:05
7034-57498	3938 I-5 7.5-9 7-9-91 15:10
7034-57499	3939 I-5 9.5-11 7-9-91 15:15
7034-57500	3940 I-6 1.5-3 7-9-91 15:45
7034-57501	3941 I-6 4.5-6 7-9-91 15:50
7034-57502	3942 I-6 7.5-9 7-9-91 15:55
7034-57503	3943 I-6 9.5-11 7-9-91 16:00
7034-57504	3944 I-7 1.5-3 7-9-91 16:10
7034-57505	3945 I-7 4.5-6 7-9-91 16:15
7034-57506	3946 I-7 7.5-9 7-9-91 16:20
7034-57507	3947 I-7 9.5-11 7-9-91 16:25
7034-57508	3948 I-7 9.5-11 7-9-91 16:25
7034-57509	3949 FB-6 7-9-91 16:25
7034-57510	3950 I-8 7-9-91 16:35
7034-57511	3951 I-8 7-9-91 16:40
7034-57512	3952 I-8 7-9-91 16:45
7034-57513	3953 I-8 7-9-91 16:50
7034-57514	3954 TRIP BLANK 7-9-91
7034-57515	3955 TRIP BLANK 7-9-91



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57438
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/16/91
DATE ANALYZED: 7/16/91

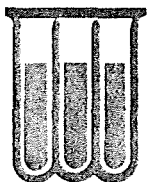
SAMPLE ID: 3878 BI-1 1.5-3 7-9-91 7:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	89	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57439
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/16/91
DATE ANALYZED: 7/16/91

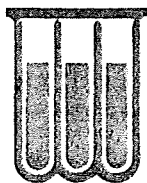
SAMPLE ID: 3879 BI-1 4.5-6 7-9-91 7:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	89	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57440
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/16/91
DATE ANALYZED: 7/16/91

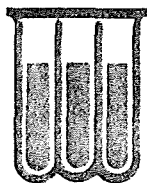
SAMPLE ID: 3880 BI-1 7.5-9 7-9-91 7:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	77	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57441
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/16/91
DATE ANALYZED: 7/16/91

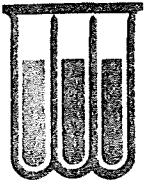
SAMPLE ID: 3881 BI-1 9.5-11 7-9-91 7:55

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	77	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57442
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

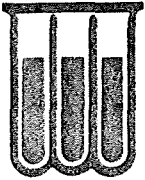
SAMPLE ID: 3882 BI-2 1.5-3 7-9-91 8:15

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	40
Toluene	ND
Xylenes	790

NOTE: ND (None Detected, lower detectable limit = 24 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	103	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57443
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/16/91
DATE ANALYZED: 7/16/91

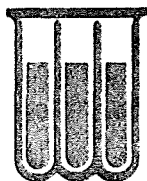
SAMPLE ID: 3883 BI-2 4.5-6 7-9-91 8:20

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	20
Toluene	ND
Xylenes	260

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	93	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57444
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

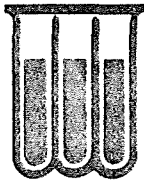
SAMPLE ID: 3884 BI-2 7.5-9 7-9-91 8:25

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	120
Toluene	6
Xylenes	140

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	96	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57445
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/19/91

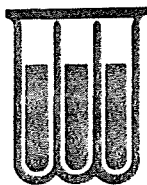
SAMPLE ID: 3885 BI-2 9.5-11 7-9-91 8:30

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	4,800
Toluene	300
Xylenes	7,700

NOTE: ND (None Detected, lower detectable limit = 200 ug/kg) as rec'd
 ND* (None Detected, lower detectable limit = ug/kg) as rec'd
 -- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	96	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57446
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

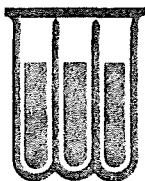
SAMPLE ID: 3886 BI-3 1.5-3 7-9-91 8:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	19
Toluene	ND
Xylenes	190

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	95	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57447
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

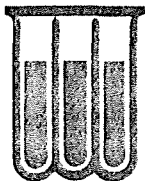
SAMPLE ID: 3887 BI-3 4.5-6 7-9-91 8:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	93	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57448
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

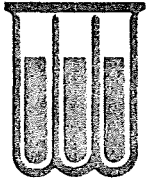
SAMPLE ID: 3888 BI-3 4.5-6 7-9-91 8:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	96	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57449
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/23/91

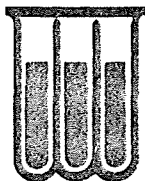
SAMPLE ID: 3889 FB-1 7-9-91 8:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	1
Xylenes	4

NOTE: ND (None Detected, lower detectable limit = 1 ug/l) as rec'd
ND* (None Detected, lower detectable limit = ug/l) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	99	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57450
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

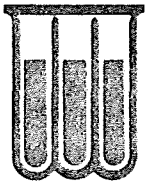
SAMPLE ID: 3890 BI-3 7.5-9 7-9-91 8:55

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	83	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57451
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

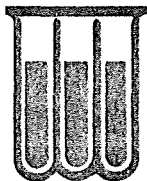
SAMPLE ID: 3891 BI-3 9.5-11 7-9-91 8:59

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	86	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57452
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

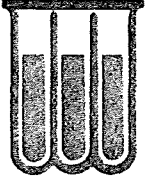
SAMPLE ID: 3892 BI-4 1.5-3 7-9-91 9:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	9
Toluene	ND
Xylenes	170

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	82	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57453
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

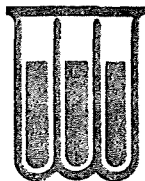
SAMPLE ID: 3893 BI-4 4.5-6 7-9-91 9:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	92	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57454
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

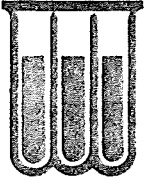
SAMPLE ID: 3894 BI-4 7.5-9 7-9-91 9:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	88	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57455
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

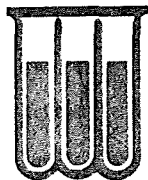
SAMPLE ID: 3895 BI-5 1.5-3 7-9-91 10:25

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	33
Toluene	ND
Xylenes	310

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	89	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57456
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

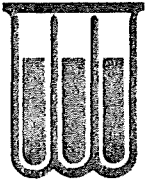
SAMPLE ID: 3896 BI-5 4.5-6 7-9-91 10:30

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	85	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57457
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

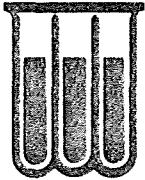
SAMPLE ID: 3897 BI-5 7.5-9 7-9-91 10:35

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	4
Xylenes	11

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	86	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57458
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

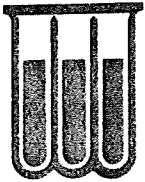
SAMPLE ID: 3898 BI-5 9.5-11 7-9-91 10:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	79	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57459
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

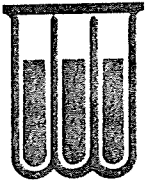
SAMPLE ID: 3899 BI-5 9.5-11 7-9-91 10:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	77	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57460
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/23/91

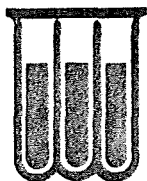
SAMPLE ID: 3900 FB-2 7-9-91 10:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	1
Xylenes	5

NOTE: ND (None Detected, lower detectable limit = 1 ug/l) as rec'd
ND* (None Detected, lower detectable limit = ug/l) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	100	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57461
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

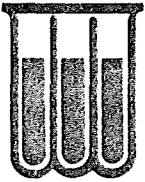
SAMPLE ID: 3901 BI-6 1.5-3 7-9-91 10:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	85	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57462
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

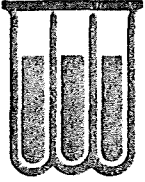
SAMPLE ID: 3902 BI-6 4.5-6 7-9-91 10:55

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	8

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	78	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57463
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

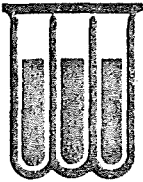
SAMPLE ID: 3903 BI-6 7.5-9 7-9-91 11:00

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	4.
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	4

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	78	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57464
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

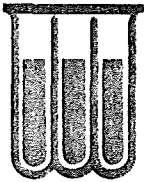
SAMPLE ID: 3904 BI-6 9.5-11 7-9-91 11:05

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	10
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	75	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57465
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

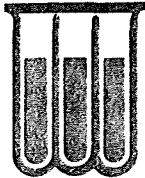
SAMPLE ID: 3905 BI-7 1.5-3 7-9-91 11:25

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	81	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57466
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/22/91
DATE ANALYZED: 7/22/91

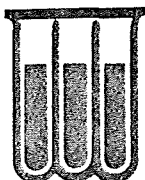
SAMPLE ID: 3906 BI-7 4.5-6 7-9-91 11:30

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	13
Toluene	ND
Xylenes	320

NOTE: ND (None Detected, lower detectable limit = 13 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	93	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57467
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/19/91

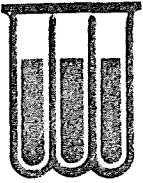
SAMPLE ID: 3907 BI-7 7.5-9 7-9-91 11:35

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	4,700
Toluene	ND
Xylenes	22,000

NOTE: ND (None Detected, lower detectable limit = 1,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57468
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/22/91

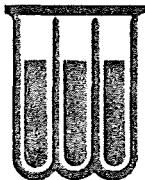
SAMPLE ID: 3908 BI-7 9.5-11 7-9-91 11:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	9,800
Toluene	ND
Xylenes	40,000

NOTE: ND (None Detected, lower detectable limit = 1,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57469
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/19/91

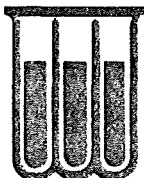
SAMPLE ID: 3909 BI-8 1.5-3 7-9-91 11:55

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	31
Toluene	ND
Xylenes	150

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	76	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57470
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/20/91

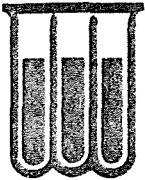
SAMPLE ID: 3910 BI-8 4.5-6 7-9-91 12:00

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	200
Toluene	ND
Xylenes	2,000

NOTE: ND (None Detected, lower detectable limit = 200 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	100	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57471
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

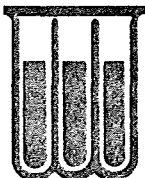
SAMPLE ID: 3911 BI-8 4.5-6 7-9-91 12:00

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	16,000
Toluene	5,200
Xylenes	83,000

NOTE: ND (None Detected, lower detectable limit = 1,200 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57472
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/23/91

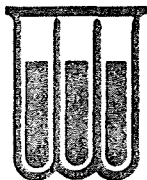
SAMPLE ID: 3912 FB-3 7-9-91 12:00

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	3

NOTE: ND (None Detected, lower detectable limit = 2 ug/l) as rec'd
ND* (None Detected, lower detectable limit = ug/l) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	96	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57473
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/19/91

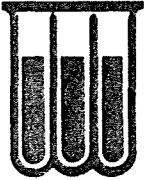
SAMPLE ID: 3913 BI-8 7.5-9 7-9-91 12:05

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	4,100
Toluene	4,600
Xylenes	19,000

NOTE: ND (None Detected, lower detectable limit = 1,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57474
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/20/91

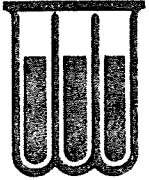
SAMPLE ID: 3914 BI-8 9.5-11 7-9-91 12:10

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	6,300
Toluene	19,000
Xylenes	24,000

NOTE: ND (None Detected, lower detectable limit = 500 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57475
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/19/91

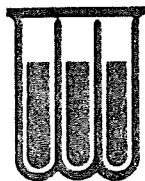
SAMPLE ID: 3915 I-1 1.5-3 7-9-91 12:35

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	2,100
Toluene	ND
Xylenes	11,000

NOTE: ND (None Detected, lower detectable limit = 400 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57476
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/20/91

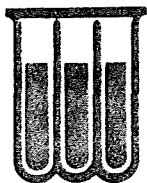
SAMPLE ID: 3916 I-1 4.5-6 7-9-91 12:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	1,400,000
Toluene	1,200,000
Xylenes	7,000,000

NOTE: ND (None Detected, lower detectable limit = 74,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57477
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/19/91

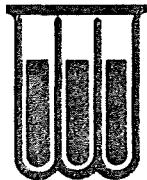
SAMPLE ID: 3917 I-1 7.5-9 7-9-91 12:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	3,500
Toluene	2,600
Xylenes	20,000

NOTE: ND (None Detected, lower detectable limit = 1,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57478
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

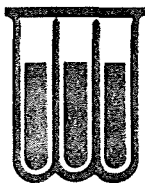
SAMPLE ID: 3918 I-1 9,5-11 7-9-91 12:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	6,800
Toluene	3,600
Xylenes	40,000

NOTE: ND (None Detected, lower detectable limit = 500 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SUBROGATE RECOVERY:	X	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57479
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/19/91

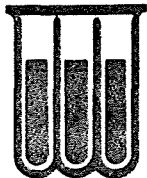
SAMPLE ID: 3919 I-2 1.5-3 7-9-91 13:30

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	2,000
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 900 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57480
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/19/91

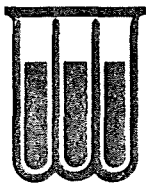
SAMPLE ID: 3920 I-2 4.5-6 7-9-91 13:35

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	2,600

NOTE: ND (None Detected, lower detectable limit = 300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	88	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57481
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

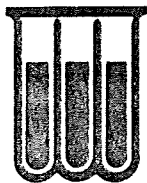
SAMPLE ID: 3921 I-2 7.5-9 7-9-91 13:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	93

NOTE: ND (None Detected, lower detectable limit = 25 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	94	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57482
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

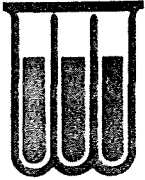
SAMPLE ID: 3922 I-2 9.5-11 7-9-91 13:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	6
Xylenes	7

NOTE: ND (None Detected, lower detectable limit = 2 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	58	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57483
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

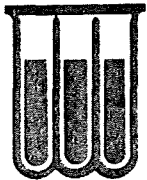
SAMPLE ID: 3923 I-2 9.5-11 7-9-91 13:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	2
Toluene	7
Xylenes	10

NOTE: ND (None Detected, lower detectable limit = 2 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	58	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57484
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/23/91

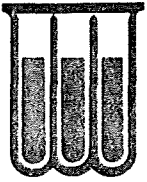
SAMPLE ID: 3924 FB-4 7-9-91 13:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	3

NOTE: ND (None Detected, lower detectable limit = 1 ug/l) as rec'd
ND* (None Detected, lower detectable limit = ug/l) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	98	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57485
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/23/91

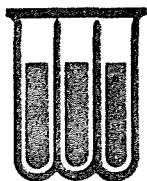
SAMPLE ID: 3925 FIELD BLANK 7-9-91 13:48

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	2

NOTE: ND (None Detected, lower detectable limit = 1 ug/l) as rec'd
ND* (None Detected, lower detectable limit = ug/l) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	98	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57487
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/19/91

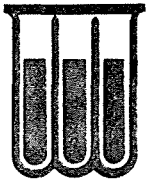
SAMPLE ID: 3927 I-3 4.5-6 7-9-91 14:00

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	3,000,000
Toluene	1,300,000
Xylenes	12,000,000

NOTE: ND (None Detected, lower detectable limit = 430,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57488
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/19/91

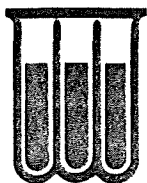
SAMPLE ID: 3928 I-3 7.5-9 7-9-91 14:05

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	76,000
Toluene	23,000
Xylenes	300,000

NOTE: ND (None Detected, lower detectable limit = 9,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57489
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/19/91

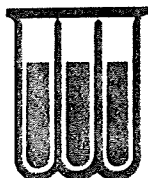
SAMPLE ID: 3929 I-3 9.5-11 7-9-91 14:10

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	76,000
Toluene	30,000
Xylenes	290,000

NOTE: ND (None Detected, lower detectable limit = 9,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57490
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/21/91

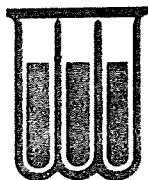
SAMPLE ID: 3930 I-4 1.5-3 7-9-91 14:20

VOLATILE ORGANICS
USEPA METHOD 8240 - GC/MS

Acetone	ND**	cis-1,3-Dichloropropene	ND
Benzene	ND	trans-1,3-Dichloropropene	ND
Bromodichloromethane	ND	Ethylbenzene	74,000
Bromoform	ND	2-Hexanone	ND**
Bromomethane	ND*	Methylene chloride	ND
2-Butanone	ND**	4-Methyl-2-pentanone	ND**
Carbon disulfide	ND	Styrene	ND
Carbon tetrachloride	ND	1,1,2,2-Tetrachloroethane	ND
Chlorobenzene	ND	Tetrachloroethene	ND
Chloroethane	ND*	Toluene	25,000
Chloroform	ND	1,1,1-Trichloroethane	ND
Chloromethane	ND*	1,1,2-Trichloroethane	ND
Dibromochloromethane	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Vinyl acetate	ND**
1,2-Dichloroethane	ND	Vinyl chloride	ND*
1,1-Dichloroethene	ND	Total Xylenes	360,000
1,2-Dichloroethene (Total)	ND		
1,2-Dichloropropane	ND		

NOTE: ND (None Detected, lower detectable limit = 6,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 13,000 ug/kg) as rec'd
ND** (None Detected, lower detectable limit = 63,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	Z	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	DIL	(76-114)	(70-121)
Toluene-d8	DIL	(88-110)	(81-117)
Bromofluorobenzene	DIL	(86-115)	(74-121)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57490
MATRIX: SOLID

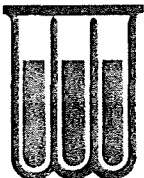
DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

SAMPLE ID: 3930 I-4 1.5-3 7-9-91 14:20

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (1 of 2)

Acenaphthene	ND	Chrysene	ND
Acenaphthylene	ND	Dibenzo(a,h)anthracene	ND
Anthracene	ND	Dibenzofuran	ND
Benzo(a)anthracene	ND	Di-n-butyl phthalate	ND
Benzo(b)fluoranthene	ND	1,2-Dichlorobenzene	11,000
Benzo(k)fluoranthene	ND	1,3-Dichlorobenzene	ND
Benzo(ghi)perylene	ND	1,4-Dichlorobenzene	ND
Benzo(a)pyrene	ND	3,3'-Dichlorobenzidine	ND*
Benzyl alcohol	ND	Diethyl phthalate	ND
Bis(2-chloroethoxy)methane	ND	Dimethyl phthalate	ND
Bis(2-chloroethyl)ether	ND	2,4-Dinitrotoluene	ND
Bis(2-chloroisopropyl)ether	ND	2,6-Dinitrotoluene	ND
Bis(2-ethylhexyl)phthalate	400 JB	Di-n-octyl phthalate	ND
4-Bromophenyl phenyl ether	ND	Fluoranthene	ND
Butyl benzyl phthalate	ND	Fluorene	ND
4-Chloroaniline	ND	Hexachlorobenzene	ND
2-Chloronaphthalene	ND	Hexachlorobutadiene	ND
4-Chlorophenyl phenyl ether	ND	Hexachlorocyclopentadiene	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57490
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

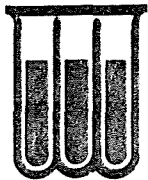
SAMPLE ID: 3930 I-4 1.5-3 7-9-91 14:20

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (2 of 2)

Hexachloroethane	ND
Indeno(1,2,3-cd)pyrene	ND
Isophorone	ND
2-Methylnaphthalene	770 J
Naphthalene	5,800
Nitrobenzene	ND
2-Nitronaniline	ND*
3-Nitronaniline	ND*
4-Nitronaniline	ND*
N-Nitrosodiphenylamine	ND
N-Nitrosodi-n-propylamine	ND
Phenanthrene	250 J
Pyrene	ND
1,2,4-Trichlorobenzene	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Nitrobenzene-d5	90	(35-114)	(23-120)
Fluorobiphenyl	90	(43-116)	(30-115)
Terphenyl-d14	79	(33-141)	(18-137)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57490
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

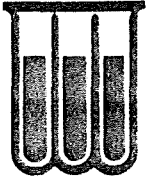
SAMPLE ID: 3930 I-4 1.5-3 7-9-91 14:20

ACID EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS

Benzoic Acid	ND*
4-Chloro-3-methylphenol	ND
2-Chlorophenol	ND
2,4-Dichlorophenol	ND
2,4-Dimethylphenol	ND
2,4-Dinitrophenol	ND*
2-Methyl-4,6-dinitrophenol	ND*
2-Methylphenol	ND
4-Methylphenol	ND
2-Nitrophenol	ND
4-Nitrophenol	ND*
Pentachlorophenol	ND*
Phenol	ND
2,4,5-Trichlorophenol	ND
2,4,6-Trichlorophenol	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
2-Fluorophenol	37	(21-100)	(25-121)
Phenol-d5	99	(10-94)	(24-113)
2,4,6-Tribromophenol	115	(10-123)	(19-122)



WADSWORTH/ALERT
LABORATORIES, INC.

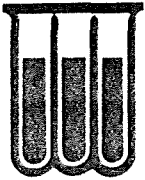
COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57490
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

SAMPLE ID: 3930 I-4 1.5-3 7-9-91 14:20

**EXTRACTABLE ORGANICS
OTHER COMPOUNDS**

None



WADSWORTH/ALERT
LABORATORIES, INC.

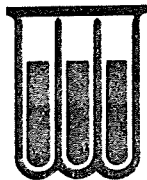
COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57490
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

SAMPLE ID: 3930 I-4 1.5-3 7-9-91 14:20

EXTRACTABLE ORGANICS
MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS
with their estimated concentrations

Unknown aromatic hydrocarbon	20,000	ug/kg
Unknown aromatic hydrocarbon	10,000	ug/kg
Unknown aromatic hydrocarbon	40,000	ug/kg
Unknown aromatic hydrocarbon	10,000	ug/kg
Unknown aliphatic hydrocarbon	20,000	ug/kg
Unknown aromatic hydrocarbon	10,000	ug/kg
Unknown aromatic hydrocarbon	9,000	ug/kg
Hexadecanoic acid	10,000	ug/kg
Unknown	20,000	ug/kg
Unknown	7,000	ug/kg
Unknown	6,000	ug/kg
Unknown	8,000	ug/kg
Unknown	7,000	ug/kg
Unknown	10,000	ug/kg
Unknown aliphatic hydrocarbon	7,000	ug/kg
Unknown aromatic hydrocarbon	8,000	ug/kg
Unknown	5,000	ug/kg
Unknown aromatic hydrocarbon	6,000	ug/kg
Octadecanoic acid	2,000	ug/kg



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57491
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/21/91

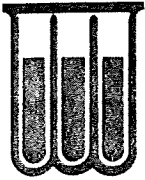
SAMPLE ID: 3931 I-4 4.5-6 7-9-91 14:25

VOLATILE ORGANICS
USEPA METHOD 8240 - GC/MS

Acetone	ND**	cis-1,3-Dichloropropene	ND
Benzene	ND	trans-1,3-Dichloropropene	ND
Bromodichloromethane	ND	Ethylbenzene	460,000
Bromoform	ND	2-Hexanone	ND**
Bromomethane	ND*	Methylene chloride	ND
2-Butanone	ND**	4-Methyl-2-pentanone	ND**
Carbon disulfide	ND	Styrene	ND
Carbon tetrachloride	ND	1,1,2,2-Tetrachloroethane	ND
Chlorobenzene	ND	Tetrachloroethene	ND
Chloroethane	ND*	Toluene	60,000
Chloroform	ND	1,1,1-Trichloroethane	ND
Chloromethane	ND*	1,1,2-Trichloroethane	ND
Dibromochloromethane	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Vinyl acetate	ND**
1,2-Dichloroethane	ND	Vinyl chloride	ND*
1,1-Dichloroethene	ND	Total Xylenes	2,400,000
1,2-Dichloroethene (Total)	ND		
1,2-Dichloropropane	ND		

NOTE: ND (None Detected, lower detectable limit = 63,000 ug/kg) as rec'd
 ND* (None Detected, lower detectable limit = 130,000 ug/kg) as rec'd
 ND** (None Detected, lower detectable limit = 630,000 ug/kg) as rec'd
 J (Detected, but below quantitation limit; estimated value)
 B (Compound detected in method blank associated with this sample)
 -- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	DIL	(76-114)	(70-121)
Toluene-d8	DIL	(88-110)	(81-117)
Bromofluorobenzene	DIL	(86-115)	(74-121)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57491
MATRIX: SOLID

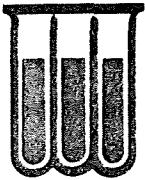
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DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

SAMPLE ID: 3931 I-4 4.5-6 7-9-91 14:25

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (1 of 2)

Acenaphthene	ND	Chrysene	ND
Acenaphthylene	ND	Dibenzo(a,h)anthracene	ND
Anthracene	ND	Dibenzofuran	ND
Benzo(a)anthracene	ND	Di-n-butyl phthalate	ND
Benzo(b)fluoranthene	ND	1,2-Dichlorobenzene	ND
Benzo(k)fluoranthene	ND	1,3-Dichlorobenzene	ND
Benzo(ghi)perylene	ND	1,4-Dichlorobenzene	ND
Benzo(a)pyrene	ND	3,3'-Dichlorobenzidine	ND*
Benzyl alcohol	ND	Diethyl phthalate	ND
Bis(2-chloroethoxy)methane	ND	Dimethyl phthalate	ND
Bis(2-chloroethyl)ether	ND	2,4-Dinitrotoluene	ND
Bis(2-chloroisopropyl)ether	ND	2,6-Dinitrotoluene	ND
Bis(2-ethylhexyl)phthalate	ND	Di-n-octyl phthalate	ND
4-Bromophenyl phenyl ether	ND	Fluoranthene	ND
Butyl benzyl phthalate	ND	Fluorene	ND
4-Chloroaniline	ND	Hexachlorobenzene	ND
2-Chloronaphthalene	ND	Hexachlorobutadiene	ND
4-Chlorophenyl phenyl ether	ND	Hexachlorocyclopentadiene	ND

NOTE: ND (None Detected, lower detectable limit = 3,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 16,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)



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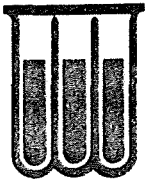
SAMPLE ID: 3931 I-4 4.5-6 7-9-91 14:25

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (2 of 2)

Hexachloroethane	ND
Indeno(1,2,3-cd)pyrene	ND
Isophorone	ND
2-Methylnaphthalene	830 J
Naphthalene	3,900
Nitrobenzene	ND
2-Nitronaniline	ND*
3-Nitronaniline	ND*
4-Nitronaniline	ND*
N-Nitrosodiphenylamine	ND
N-Nitrosodi-n-propylamine	ND
Phenanthrene	ND
Pyrene	ND
1,2,4-Trichlorobenzene	ND

NOTE: ND (None Detected, lower detectable limit = 3,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 16,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Nitrobenzene-d5	DIL	(35-114)	(23-120)
Fluorobiphenyl	DIL	(43-116)	(30-115)
Terphenyl-d14	DIL	(33-141)	(18-137)



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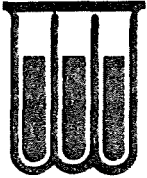
SAMPLE ID: 3931 I-4 4.5-6 7-9-91 14:25

ACID EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS

Benzoic Acid	ND*
4-Chloro-3-methylphenol	ND
2-Chlorophenol	ND
2,4-Dichlorophenol	ND
2,4-Dimethylphenol	ND
2,4-Dinitrophenol	ND*
2-Methyl-4,6-dinitrophenol	ND*
2-Methylphenol	ND
4-Methylphenol	ND
2-Nitrophenol	ND
4-Nitrophenol	ND*
Pentachlorophenol	ND*
Phenol	ND
2,4,5-Trichlorophenol	ND
2,4,6-Trichlorophenol	ND

NOTE: ND (None Detected, lower detectable limit = 3,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 16,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
2-Fluorophenol	DIL	(21-100)	(25-121)
Phenol-d5	DIL	(10-94)	(24-113)
2,4,6-Tribromophenol	DIL	(10-123)	(19-122)



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DATE ANALYZED: 7/12/91

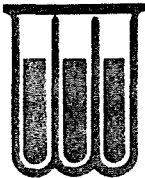
SAMPLE ID: 3931 I-4 4.5-6 7-9-91 14:25

EXTRACTABLE ORGANICS
OTHER COMPOUNDS

None

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS
with their estimated concentrations

Unknown hydrocarbon	10,000	ug/kg
Benzene, (1-methylethyl)-	30,000	ug/kg
Benzene, 1-ethyl-2-methyl-	20,000	ug/kg
Benzene, 1-ethyl-4-methyl-	10,000	ug/kg
Benzene, (1-methylethenyl)-	100,000	ug/kg
Trimethyl benzene isomer	20,000	ug/kg
Unknown hydrocarbon	20,000	ug/kg
Unknown	5,000	ug/kg
Unknown	4,000	ug/kg



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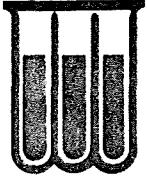
SAMPLE ID: 3932 I-4 7.5-9 7-9-91 14:30

VOLATILE ORGANICS
USEPA METHOD 8240 - GC/MS

Acetone	ND**	cis-1,3-Dichloropropene	ND
Benzene	ND	trans-1,3-Dichloropropene	ND
Bromodichloromethane	ND	Ethylbenzene	11,000
Bromoform	ND	2-Hexanone	ND**
Bromomethane	ND*	Methylene chloride	ND
2-Butanone	ND**	4-Methyl-2-pentanone	ND**
Carbon disulfide	ND	Styrene	ND
Carbon tetrachloride	ND	1,1,2,2-Tetrachloroethane	ND
Chlorobenzene	ND	Tetrachloroethene	ND
Chloroethane	ND*	Toluene	1,800
Chloroform	ND	1,1,1-Trichloroethane	ND
Chloromethane	ND*	1,1,2-Trichloroethane	ND
Dibromochloromethane	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Vinyl acetate	ND**
1,2-Dichloroethane	ND	Vinyl chloride	ND*
1,1-Dichloroethene	ND	Total Xylenes	93,000
1,2-Dichloroethene (Total)	ND		
1,2-Dichloropropane	ND		

NOTE: ND (None Detected, lower detectable limit = 1,600 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 3,200 ug/kg) as rec'd
ND** (None Detected, lower detectable limit = 16,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	92	(76-114)	(70-121)
Toluene-d8	83	(88-110)	(81-117)
Bromofluorobenzene	77	(86-115)	(74-121)



WADSWORTH/ALERT
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DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/22/91

SAMPLE ID: 3932 I-4 7.5-9 7-9-91 14:30

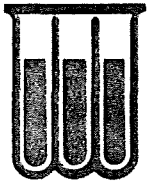
VOLATILE ORGANICS
OTHER COMPOUNDS

None

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS
with their estimated concentrations

Trimethyl benzene isomer

1,600 ug/kg



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MATRIX: SOLID

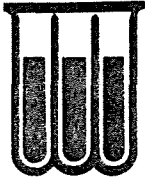
DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

SAMPLE ID: 3932 I-4 7.5-9 7-9-91 14:30

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (1 of 2)

Acenaphthene	ND	Chrysene	ND
Acenaphthylene	ND	Dibenzo(a,h)anthracene	ND
Anthracene	ND	Dibenzofuran	ND
Benzo(a)anthracene	ND	Di-n-butyl phthalate	240 J
Benzo(b)fluoranthene	ND	1,2-Dichlorobenzene	ND
Benzo(k)fluoranthene	ND	1,3-Dichlorobenzene	ND
Benzo(ghi)perylene	ND	1,4-Dichlorobenzene	ND
Benzo(a)pyrene	ND	3,3'-Dichlorobenzidine	ND*
Benzyl alcohol	ND	Diethyl phthalate	ND
Bis(2-chloroethoxy)methane	ND	Dimethyl phthalate	ND
Bis(2-chloroethyl)ether	ND	2,4-Dinitrotoluene	ND
Bis(2-chloroisopropyl)ether	ND	2,6-Dinitrotoluene	ND
Bis(2-ethylhexyl)phthalate	ND	Di-n-octyl phthalate	ND
4-Bromophenyl phenyl ether	ND	Fluoranthene	ND
Butyl benzyl phthalate	ND	Fluorene	ND
4-Chloroaniline	ND	Hexachlorobenzene	ND
2-Chloronaphthalene	ND	Hexachlorobutadiene	ND
4-Chlorophenyl phenyl ether	ND	Hexachlorocyclopentadiene	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57492
MATRIX: SOLID

DATE RECEIVED: 7/11/91
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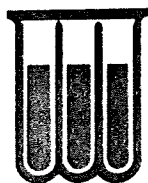
SAMPLE ID: 3932 I-4 7.5-9 7-9-91 14:30

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (2 of 2)

Hexachloroethane	ND
Indeno(1,2,3-cd)pyrene	ND
Isophorone	ND
2-Methylnaphthalene	ND
Naphthalene	ND
Nitrobenzene	ND
2-Nitroniline	ND*
3-Nitroniline	ND*
4-Nitroniline	ND*
N-Nitrosodiphenylamine	ND
N-Nitrosodi-n-propylamine	ND
Phenanthrene	ND
Pyrene	ND
1,2,4-Trichlorobenzene	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Nitrobenzene-d5	92	(35-114)	(23-120)
Fluorobiphenyl	84	(43-116)	(30-115)
Terphenyl-d14	74	(33-141)	(18-137)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57492
MATRIX: SOLID

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DATE EXTRACTED: 7/11/91
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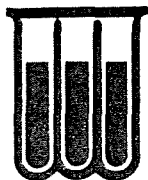
SAMPLE ID: 3932 I-4 7.5-9 7-9-91 14:30

ACID EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS

Benzoic Acid	12,000
4-Chloro-3-methylphenol	ND
2-Chlorophenol	ND
2,4-Dichlorophenol	ND
2,4-Dimethylphenol	ND
2,4-Dinitrophenol	ND*
2-Methyl-4,6-dinitrophenol	ND*
2-Methylphenol	ND
4-Methylphenol	ND
2-Nitrophenol	ND
4-Nitrophenol	ND*
Pentachlorophenol	ND*
Phenol	4,400
2,4,5-Trichlorophenol	ND
2,4,6-Trichlorophenol	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
 ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
 J (Detected, but below quantitation limit; estimated value)
 B (Compound detected in method blank associated with this sample)
 -- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
2-Fluorophenol	84	(21-100)	(25-121)
Phenol-d5	110	(10-94)	(24-113)
2,4,6-Tribromophenol	124*	(10-123)	(19-122)



WADSWORTH/ALERT
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COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57492
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

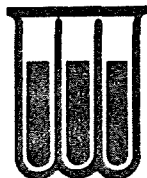
SAMPLE ID: 3932 I-4 7.5-9 7-9-91 14:30

EXTRACTABLE ORGANICS
OTHER COMPOUNDS

None

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS
with their estimated concentrations

Dimethyl benzene isomer	50,000	ug/kg
Dimethyl benzene isomer	20,000	ug/kg
1,3-Propanediol, 2,2-dimethyl-	20,000	ug/kg
Trimethyl benzene isomer	2,000	ug/kg
Unknown	8,000	ug/kg
Unknown	2,000	ug/kg
Unknown	10,000	ug/kg
1-Propanol, 2-(2-hydroxypropoxy)-	10,000	ug/kg
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-	9,000	ug/kg
Unknown	20,000	ug/kg
Ethyl methyl benzene isomer	3,000	ug/kg
Unknown	3,000	ug/kg
Unknown	5,000	ug/kg
Unknown	3,000	ug/kg
Unknown	3,000	ug/kg
Unknown	3,000	ug/kg
Unknown	2,000	ug/kg
Unknown	3,000	ug/kg
Unknown	2,000	ug/kg
Unknown	1,000	ug/kg



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LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57493
MATRIX: SOLID

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DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/21/91

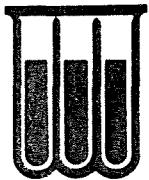
SAMPLE ID: 3933 I-4 9.5-11 7-9-91 14:35

VOLATILE ORGANICS
USEPA METHOD 8240 - GC/MS

Acetone	ND**	cis-1,3-Dichloropropene	ND
Benzene	ND	trans-1,3-Dichloropropene	ND
Bromodichloromethane	ND	Ethylbenzene	11,000
Bromoform	ND	2-Hexanone	ND**
Bromomethane	ND*	Methylene chloride	ND
2-Butanone	ND**	4-Methyl-2-pentanone	ND**
Carbon disulfide	ND	Styrene	ND
Carbon tetrachloride	ND	1,1,2,2-Tetrachloroethane	ND
Chlorobenzene	ND	Tetrachloroethene	ND
Chloroethane	ND*	Toluene	2,500
Chloroform	ND	1,1,1-Trichloroethane	ND
Chloromethane	ND*	1,1,2-Trichloroethane	ND
Dibromochloromethane	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Vinyl acetate	ND**
1,2-Dichloroethane	ND	Vinyl chloride	ND*
1,1-Dichloroethene	ND	Total Xylenes	82,000
1,2-Dichloroethene (Total)	ND		
1,2-Dichloropropane	ND		

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 3,000 ug/kg) as rec'd
ND** (None Detected, lower detectable limit = 13,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	95	(76-114)	(70-121)
Toluene-d8	94	(88-110)	(81-117)
Bromofluorobenzene	106	(86-115)	(74-121)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57493
MATRIX: SOLID

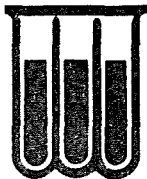
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DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

SAMPLE ID: 3933 I-4 9.5-11 7-9-91 14:35

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (1 of 2)

Acenaphthene	ND	Chrysene	ND
Acenaphthylene	ND	Dibenzo(a,h)anthracene	ND
Anthracene	ND	Dibenzofuran	ND
Benzo(a)anthracene	ND	Di-n-butyl phthalate	440 JB
Benzo(b)fluoranthene	ND	1,2-Dichlorobenzene	ND
Benzo(k)fluoranthene	ND	1,3-Dichlorobenzene	ND
Benzo(ghi)perylene	ND	1,4-Dichlorobenzene	ND
Benzo(a)pyrene	ND	3,3'-Dichlorobenzidine	ND*
Benzyl alcohol	ND	Diethyl phthalate	ND
Bis(2-chloroethoxy)methane	ND	Dimethyl phthalate	ND
Bis(2-chloroethyl)ether	ND	2,4-Dinitrotoluene	ND
Bis(2-chloroisopropyl)ether	ND	2,6-Dinitrotoluene	ND
Bis(2-ethylhexyl)phthalate	ND	Di-n-octyl phthalate	ND
4-Bromophenyl phenyl ether	ND	Fluoranthene	ND
Butyl benzyl phthalate	ND	Fluorene	ND
4-Chloroaniline	ND	Hexachlorobenzene	ND
2-Chloronaphthalene	ND	Hexachlorobutadiene	ND
4-Chlorophenyl phenyl ether	ND	Hexachlorocyclopentadiene	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57493
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DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

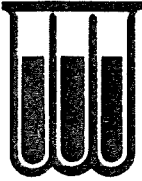
SAMPLE ID: 3933 I-4 9.5-11 7-9-91 14:35

BASE/NEUTRAL EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS (2 of 2)

Hexachloroethane	ND
Indeno(1,2,3-cd)pyrene	ND
Isophorone	ND
2-Methylnaphthalene	ND
Naphthalene	530 J
Nitrobenzene	ND
2-Nitronaniline	ND*
3-Nitronaniline	ND*
4-Nitronaniline	ND*
N-Nitrosodiphenylamine	ND
N-Nitrosodi-n-propylamine	ND
Phenanthrene	ND
Pyrene	ND
1,2,4-Trichlorobenzene	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Nitrobenzene-d5	92	(35-114)	(23-120)
Fluorobiphenyl	100	(43-116)	(30-115)
Terphenyl-d14	76	(33-141)	(18-137)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57493
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

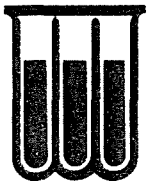
SAMPLE ID: 3933 I-4 9.5-11 7-9-91 14:35

ACID EXTRACTABLE ORGANICS
USEPA METHOD 8270 - GC/MS

Benzoic Acid	23,000
4-Chloro-3-methylphenol	ND
2-Chlorophenol	ND
2,4-Dichlorophenol	ND
2,4-Dimethylphenol	ND
2,4-Dinitrophenol	ND*
2-Methyl-4,6-dinitrophenol	ND*
2-Methylphenol	ND
4-Methylphenol	ND
2-Nitrophenol	ND
4-Nitrophenol	ND*
Pentachlorophenol	ND*
Phenol	4,000
2,4,5-Trichlorophenol	ND
2,4,6-Trichlorophenol	ND

NOTE: ND (None Detected, lower detectable limit = 1,300 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 6,000 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
B (Compound detected in method blank associated with this sample)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
2-Fluorophenol	86	(21-100)	(25-121)
Phenol-d5	104	(10-94)	(24-113)
2,4,6-Tribromophenol	120	(10-123)	(19-122)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57493
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/12/91

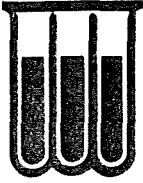
SAMPLE ID: 3933 I-4 9.5-11 7-9-91 14:35

EXTRACTABLE ORGANICS
OTHER COMPOUNDS

None

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS
with their estimated concentrations

Unknown	30,000	ug/kg
Unknown	20,000	ug/kg
Unknown aromatic hydrocarbon	10,000	ug/kg
Unknown aliphatic hydrocarbon	10,000	ug/kg
Ethanol, 2,2'-oxybis-	10,000	ug/kg
Unknown	20,000	ug/kg
Unknown	10,000	ug/kg
Unknown	10,000	ug/kg
Unknown	40,000	ug/kg
Unknown	2,000	ug/kg
Unknown	2,000	ug/kg
Unknown	2,000	ug/kg
Unknown	1,000	ug/kg
Unknown aromatic hydrocarbon	3,000	ug/kg
Unknown aromatic hydrocarbon	6,000	ug/kg
Unknown aromatic hydrocarbon	5,000	ug/kg
Unknown aliphatic hydrocarbon	2,000	ug/kg



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57494
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/19/91

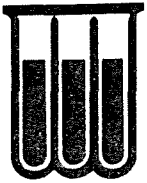
SAMPLE ID: 3934 I-5 1.5-3 7-9-91 15:00

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	50,000
Toluene	ND
Xylenes	260,000

NOTE: ND (None Detected, lower detectable limit = 10,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57495
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/20/91

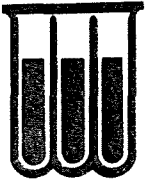
SAMPLE ID: 3935 I-5 4.5-6 7-9-91 15:05

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	50,000
Toluene	ND
Xylenes	890,000

NOTE: ND (None Detected, lower detectable limit = 20,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	Σ	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57496
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/20/91

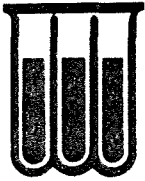
SAMPLE ID: 3936 I-5 4.5-6 7-9-91 15:05

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	22,000

NOTE: ND (None Detected, lower detectable limit = 3,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57497
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/23/91

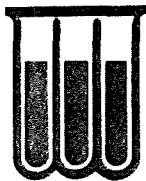
SAMPLE ID: 3937 FB-5 7-9-91 15:05

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	4

NOTE: ND (None Detected, lower detectable limit = 1 ug/l) as rec'd
ND* (None Detected, lower detectable limit = ug/l) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	92	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57498
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/20/91

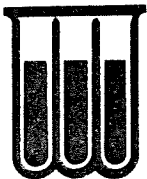
SAMPLE ID: 3938 I-5 7.5-9 7-9-91 15:10

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	7,900
Toluene	1,700
Xylenes	61,000

NOTE: ND (None Detected, lower detectable limit = 1,500 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57499
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

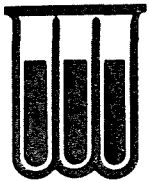
SAMPLE ID: 3939 I-5 9.5-11 7-9-91 15:15

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	8,000
Toluene	ND
Xylenes	43,000

NOTE: ND (None Detected, lower detectable limit = 2,400 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57500
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

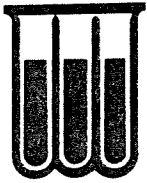
SAMPLE ID: 3940 I-6 1.5-3 7-9-91 15:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	6

NOTE: ND (None Detected, lower detectable limit = 2 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	66	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57501
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

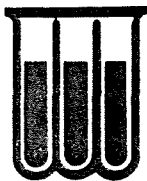
SAMPLE ID: 3941 I-6 4.5-6 7-9-91 15:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	4

NOTE: ND (None Detected, lower detectable limit = 2 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	74	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57502
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

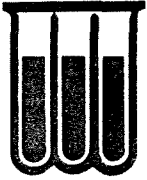
SAMPLE ID: 3942 I-6 7.5-9 7-9-91 15:55

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	3
Toluene	3
Xylenes	14

NOTE: ND (None Detected, lower detectable limit = 2 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	90	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57503
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

SAMPLE ID: 3943 I-6 9.5-11 7-9-91 16:00

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	6
Toluene	9
Xylenes	29

NOTE: ND (None Detected, lower detectable limit = 2 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	69	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57504
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

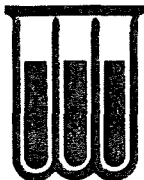
SAMPLE ID: 3944 I-7 1.5-3 7-9-91 16:10

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	26
Toluene	ND
Xylenes	620

NOTE: ND (None Detected, lower detectable limit = 18 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	88	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57505
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

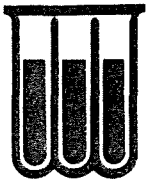
SAMPLE ID: 3945 I-7 4.5-6 7-9-91 16:15

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	930,000
Toluene	ND
Xylenes	6,400,000

NOTE: ND (None Detected, lower detectable limit = 180,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57506
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

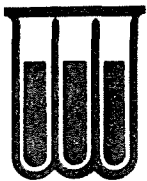
SAMPLE ID: 3946 I-7 7.5-9 7-9-91 16:20

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	14,000
Toluene	ND
Xylenes	96,000

NOTE: ND (None Detected, lower detectable limit = 2,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57507
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

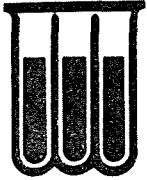
SAMPLE ID: 3947 I-7 9.5-11 7-9-91 16:25

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	54,000
Toluene	ND
Xylenes	360,000

NOTE: ND (None Detected, lower detectable limit = 11,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57508
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

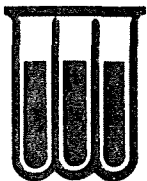
SAMPLE ID: 3948 I-7 9.5-11 7-9-91 16:25

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	92,000
Toluene	ND
Xylenes	670,000

NOTE: ND (None Detected, lower detectable limit = 13,000 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	DIL	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57509
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/19/91

SAMPLE ID: 3949 FB-6 7-9-91 16:25

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	6
Toluene	ND
Xylenes	42

NOTE: ND (None Detected, lower detectable limit = 1 ug/l) as rec'd
ND* (None Detected, lower detectable limit = ug/l) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	96	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57510
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

SAMPLE ID: 3950 I-8 7-9-91 16:35

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	16

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	86	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57511
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

SAMPLE ID: 3951 I-8 7-9-91 16:40

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	ND
Toluene	ND
Xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 4 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	81	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57512
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

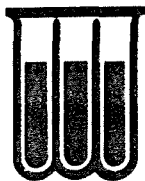
SAMPLE ID: 3952 I-8 7-9-91 16:45

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	1,500
Toluene	200
Xylenes	5,000

NOTE: ND (None Detected, lower detectable limit = 200 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	80	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57513
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

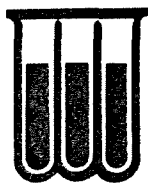
SAMPLE ID: 3953 I-8 7-9-91 16:50

VOLATILE ORGANICS
METHOD 8020 - GC

Benzene	ND
Chlorobenzene	ND
1,2-Dichlorobenzene	ND
1,3-Dichlorobenzene	ND
1,4-Dichlorobenzene	ND
Ethylbenzene	1,600
Toluene	ND
Xylenes	5,100

NOTE: ND (None Detected, lower detectable limit = 200 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = ug/kg) as rec'd
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Fluorobenzene(PID)	81	(75-125)	(75-125)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57514
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/18/91

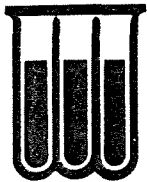
SAMPLE ID: 3954 TRIP BLANK 7-9-91

VOLATILE ORGANICS
USEPA METHOD 8240 - GC/MS

Acetone	ND**	cis-1,3-Dichloropropene	ND
Benzene	ND	trans-1,3-Dichloropropene	ND
Bromodichloromethane	ND	Ethylbenzene	ND
Bromoform	ND	2-Hexanone	ND**
Bromomethane	ND*	Methylene chloride	ND
2-Butanone	ND**	4-Methyl-2-pentanone	ND**
Carbon disulfide	ND	Styrene	ND
Carbon tetrachloride	ND	1,1,2,2-Tetrachloroethane	ND
Chlorobenzene	ND	Tetrachloroethene	ND
Chloroethane	ND*	Toluene	ND
Chloroform	ND	1,1,1-Trichloroethane	ND
Chloromethane	ND*	1,1,2-Trichloroethane	ND
Dibromochloromethane	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Vinyl acetate	ND**
1,2-Dichloroethane	ND	Vinyl chloride	ND*
1,1-Dichloroethene	ND	Total Xylenes	ND
1,2-Dichloroethene (Total)	ND		
1,2-Dichloropropane	ND		

NOTE: ND (None Detected, lower detectable limit = 5 ug/l) as rec'd
 ND* (None Detected, lower detectable limit = 10 ug/l) as rec'd
 ND** (None Detected, lower detectable limit = 50 ug/l) as rec'd
 J (Detected, but below quantitation limit; estimated value)
 B (Compound detected in method blank associated with this sample)
 -- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	96	(76-114)	(70-121)
Toluene-d8	98	(88-110)	(81-117)
Bromofluorobenzene	94	(86-115)	(74-121)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: HATCHER-SAYRE INC.
LAB #: 7034-57515
MATRIX: WATER

DATE RECEIVED: 7/11/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/18/91

SAMPLE ID: 3955 TRIP BLANK 7-9-91

VOLATILE ORGANICS
USEPA METHOD 8240 - GC/MS

Acetone	ND**	cis-1,3-Dichloropropene	ND
Benzene	ND	trans-1,3-Dichloropropene	ND
Bromodichloromethane	ND	Ethylbenzene	ND
Bromoform	ND	2-Hexanone	ND**
Bromomethane	ND*	Methylene chloride	ND
2-Butanone	ND**	4-Methyl-2-pentanone	ND**
Carbon disulfide	ND	Styrene	ND
Carbon tetrachloride	ND	1,1,2,2-Tetrachloroethane	ND
Chlorobenzene	ND	Tetrachloroethene	ND
Chloroethane	ND*	Toluene	ND
Chloroform	ND	1,1,1-Trichloroethane	ND
Chloromethane	ND*	1,1,2-Trichloroethane	ND
Dibromochloromethane	ND	Trichloroethene	ND
1,1-Dichloroethane	ND	Vinyl acetate	ND**
1,2-Dichloroethane	ND	Vinyl chloride	ND*
1,1-Dichloroethene	ND	Total Xylenes	ND
1,2-Dichloroethene (Total)	ND		
1,2-Dichloropropane	ND		

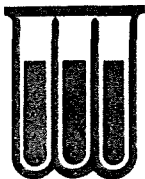
NOTE: ND (None Detected, lower detectable limit = 5 ug/l) as rec'd
 ND* (None Detected, lower detectable limit = 10 ug/l) as rec'd
 ND** (None Detected, lower detectable limit = 50 ug/l) as rec'd
 J (Detected, but below quantitation limit; estimated value)
 B (Compound detected in method blank associated with this sample)
 -- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	94	(76-114)	(70-121)
Toluene-d8	97	(88-110)	(81-117)
Bromofluorobenzene	94	(86-115)	(74-121)



WADSWORTH/ALERT
LABORATORIES, INC.

QUALITY CONTROL SECTION



WADSWORTH/ALERT
LABORATORIES, INC.

August 16, 1991

QUALITY CONTROL NARRATIVE

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

The Volatile Organic Compound (VOC) analysis of samples 57482 and 57483 show surrogate recoveries of fluorobenzene to be outside laboratory established limits. Since these samples were analyzed using the criteria established for benzene, toluene, ethylbenzene, and xylenes (BTEXs), which specifies control limits for fluorobenzene as 51% to 116%, the method was considered to be in control. Due to insufficient holding time, the samples could not be reanalyzed using method 8020 criteria.

The VOC matrix spike (MS) and matrix spike duplicate (MSD) of sample 910715 and the MSD of sample 57466 show one spiking compound to be outside laboratory established limits. Since the check samples associated with the MS and MSDs are within laboratory established limits, the method is considered in control and no corrective action is required.

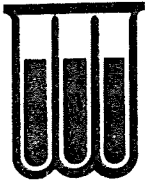
"DIL" in the analytical report means that due to high concentration in the sample, the surrogates added to that sample are diluted out and cannot be quantitated.



WADSWORTH/ALERT
LABORATORIES, INC.

CHECK SAMPLE DATA

LAB ID	ANALYSIS DATE	PARAMETER	PERCENT RECOVERY	MATRIX	QC CONTROL LIMITS
GC/MS VOLATILE COMPOUNDS					
90718	7/18/91	1,1-Dichloroethene	87	WATER	(67-126)
		Trichloroethene	100		(79-130)
		Chlorobenzene	106		(86-116)
		Toluene	105		(82-119)
		Benzene	104		(79-122)
GC/MS VOLATILE COMPOUNDS					
92719	7/19/91	1,1-Dichloroethene	89	SOLID	(56-139)
		Trichloroethene	84		(79-128)
		Chlorobenzene	84		(79-118)
		Toluene	80		(78-122)
		Benzene	78		(77-122)
BASE/NEUTRAL ACID COMPOUNDS					
92711	7/11/91	1,2,4-Trichlorobenzene	80	SOLID	(40-102)
		Acenaphthene	92		(46-123)
		2,4-Dinitrotoluene	84		(36-122)
		Pyrene	68		(14-145)
		N-Nitroso-Di-n-Propylamine	83		(41-123)
		1,4-Dichlorobenzene	73		(41- 90)
		Pentachlorophenol	106		(31-138)
		Phenol	70		(36- 90)
		2-Chlorophenol	74		(42- 91)
		4-Chloro-3-methylphenol	85		(44-132)
		4-Nitrophenol	80		(16-154)



WADSWORTH/ALERT
LABORATORIES, INC.

CHECK SAMPLE DATA

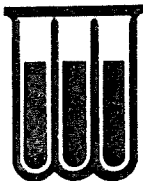
LAB ID	ANALYSIS DATE	PARAMETER	PERCENT RECOVERY	MATRIX	QC CONTROL LIMITS
GC VOLATILE COMPOUNDS					
92716	7/16/91	Benzene	88	SOLID	(86-128)
		Chlorobenzene	102		(80-130)
		1,2-Dichloroethene	104		(78-134)
		Toluene	100		(85-120)
		Trichloroethene	114		(83-137)
GC VOLATILE COMPOUNDS					
92717	7/17/91	Benzene	86	SOLID	(86-128)
		Chlorobenzene	108		(80-130)
		1,2-Dichloroethene	96		(78-134)
		Toluene	90		(85-120)
		Trichloroethene	110		(83-137)
GC VOLATILE COMPOUNDS					
92718	7/18/91	Benzene	106	SOLID	(86-128)
		Chlorobenzene	96		(80-130)
		1,2-Dichloroethene	98		(78-134)
		Toluene	106		(85-120)
		Trichloroethene	110		(83-137)



WADSWORTH/ALERT
LABORATORIES, INC.

CHECK SAMPLE DATA

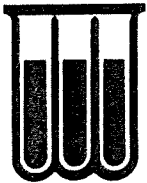
LAB ID	ANALYSIS DATE	PARAMETER	PERCENT RECOVERY	MATRIX	QC CONTROL LIMITS
GC VOLATILE COMPOUNDS					
90719	7/19/91	Benzene	98	WATER	(86-128)
		Chlorobenzene	110		(80-130)
		1,2-Dichloroethene	102		(78-134)
		Toluene	100		(85-120)
		Trichloroethene	124		(83-137)
GC VOLATILE COMPOUNDS					
92719	7/19/91	Benzene	98	SOLID	(86-128)
		Chlorobenzene	110		(80-130)
		1,2-Dichloroethene	102		(78-134)
		Toluene	100		(85-120)
		Trichloroethene	124		(83-137)
GC VOLATILE COMPOUNDS					
92720	7/20/91	Benzene	108	SOLID	(86-128)
		Chlorobenzene	100		(80-130)
		1,2-Dichloroethene	94		(78-134)
		Toluene	110		(85-120)
		Trichloroethene	114		(83-137)



WADSWORTH/ALERT
LABORATORIES, INC.

CHECK SAMPLE DATA

LAB ID	ANALYSIS DATE	PARAMETER	PERCENT RECOVERY	MATRIX	QC CONTROL LIMITS
		GC VOLATILE COMPOUNDS			
92722	7/22/91	Benzene	94	SOLID	(86-128)
		Chlorobenzene	98		(80-130)
		1,2-Dichloroethene	82		(78-134)
		Toluene	98		(85-120)
		Trichloroethene	110		(83-137)
		GC VOLATILE COMPOUNDS			
90723	7/23/91	Benzene	90	WATER	(86-128)
		Chlorobenzene	94		(80-130)
		1,2-Dichloroethene	80		(78-134)
		Toluene	98		(85-120)
		Trichloroethene	106		(83-137)
		GC VOLATILE COMPOUNDS			
92723	7/23/91	Benzene	90	SOLID	(86-128)
		Chlorobenzene	94		(80-130)
		1,2-Dichloroethene	80		(78-134)
		Toluene	98		(85-120)
		Trichloroethene	106		(83-137)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/Alert Laboratories
LAB #: 9091-90718
MATRIX: WATER

DATE RECEIVED: 7/18/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/18/91

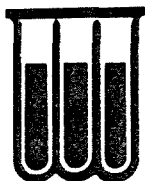
SAMPLE ID: INTRA-LAB BLANK , 7 /18/91

VOLATILE ORGANICS
BLANK COMPOUND LIST - GC/MS

Acetone	ND**	1,1-Dichloroethane	ND
Acrolein	ND**	1,2-Dichloroethane	ND
Acrylonitrile	ND**	1,1-Dichloroethene	ND
2-Butanone	ND**	1,2-Dichloroethene (total)	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND*	Ethylbenzene	ND
Carbon disulfide	ND	2-Hexanone	ND**
Carbon tetrachloride	ND	4-Methyl-2-pentanone	ND**
Chlorobenzene	ND	Methylene chloride	ND
Chloroethane	ND*	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethyl vinyl ether	ND*	Tetrachloroethene	ND
Chloromethane	ND*	Toluene	ND
Chloromethyl methyl ether	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl acetate	ND**
Dichlorodifluoromethane	ND*	Vinyl chloride	ND*
		Total xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 5 ug/l) as rec'd
ND* (None Detected, lower detectable limit = 10 ug/l) as rec'd
ND** (None Detected, lower detectable limit = 50 ug/l) as rec'd
J (Detected, but below quantitation limit; estimated value)
-- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	100	(76-114)	(70-121)
Toluene-d8	98	(88-110)	(81-117)
Bromofluorobenzene	97	(86-115)	(74-121)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/Alert Laboratories
LAB #: 9291-92719
MATRIX: SOLID

DATE RECEIVED: 7/19/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/21/91

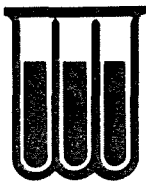
SAMPLE ID: INTRA-LAB BLANK , 7 /19/91

VOLATILE ORGANICS
BLANK COMPOUND LIST - GC/MS

Acetone	ND**	1,1-Dichloroethane	ND
Acrolein	ND**	1,2-Dichloroethane	ND
Acrylonitrile	ND**	1,1-Dichloroethene	ND
2-Butanone	ND**	1,2-Dichloroethene (total)	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-Dichloropropene	ND
Bromoform	ND	trans-1,3-Dichloropropene	ND
Bromomethane	ND*	Ethylbenzene	ND
Carbon disulfide	ND	2-Hexanone	ND**
Carbon tetrachloride	ND	4-Methyl-2-pentanone	ND**
Chlorobenzene	ND	Methylene chloride	ND
Chloroethane	ND*	Styrene	ND
Chloroform	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethyl vinyl ether	ND*	Tetrachloroethene	ND
Chloromethane	ND*	Toluene	ND
Chloromethyl methyl ether	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl acetate	ND**
Dichlorodifluoromethane	ND*	Vinyl chloride	ND*
		Total xylenes	ND

NOTE: ND (None Detected, lower detectable limit = 630 ug/kg) as rec'd
 ND* (None Detected, lower detectable limit = 1300 ug/kg) as rec'd
 ND** (None Detected, lower detectable limit = 6300 ug/kg) as rec'd
 J (Detected , but below quantitation limit; estimated value)
 -- (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
1,2-Dichloroethane	82	(76-114)	(70-121)
Toluene-d8	89	(88-110)	(81-117)
Bromofluorobenzene	115	(86-115)	(74-121)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92716
MATRIX: SOLID

DATE RECEIVED: 7/16/91
DATE EXTRACTED: 7/16/91
DATE ANALYZED: 7/16/91

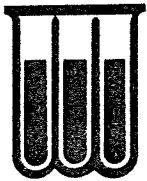
SAMPLE ID: INTRA-LAB BLANK , 7 /16/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	4
Chlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
Ethylbenzene	ND	4
Toluene	ND	4
Xylenes	ND	4

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	97



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92717
MATRIX: SOLID

DATE RECEIVED: 7/17/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

SAMPLE ID: INTRA-LAB BLANK , 7 /17/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	2
Chlorobenzene	ND	2
1,2-Dichlorobenzene	ND	2
1,3-Dichlorobenzene	ND	2
1,4-Dichlorobenzene	ND	2
Ethylbenzene	ND	2
Toluene	ND	2
Xylenes	ND	2

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	99



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92717
MATRIX: SOLID

DATE RECEIVED: 7/17/91
DATE EXTRACTED: 7/17/91
DATE ANALYZED: 7/17/91

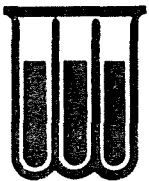
SAMPLE ID: INTRA-LAB BLANK , 7 /17/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	4
Chlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
Ethylbenzene	ND	4
Toluene	ND	4
Xylenes	ND	4

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	106



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92718
MATRIX: SOLID

DATE RECEIVED: 7/18/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

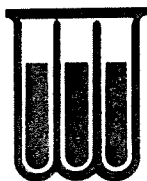
SAMPLE ID: INTRA-LAB BLANK, 7 /18/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	2
Chlorobenzene	ND	2
1,2-Dichlorobenzene	ND	2
1,3-Dichlorobenzene	ND	2
1,4-Dichlorobenzene	ND	2
Ethylbenzene	ND	2
Toluene	ND	2
Xylenes	ND	2

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	103



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92718
MATRIX: SOLID

DATE RECEIVED: 7/18/91
DATE EXTRACTED: 7/18/91
DATE ANALYZED: 7/18/91

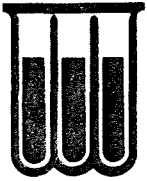
SAMPLE ID: INTRA-LAB BLANK , 7 /18/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	4
Chlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
Ethylbenzene	ND	4
Toluene	ND	4
Xylenes	ND	4

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	97



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9091-90719
MATRIX: WATER

DATE RECEIVED: 7/19/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/19/91

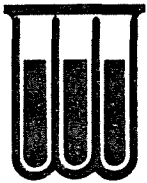
SAMPLE ID: INTRA-LAB BLANK , 7 /19/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/l)	DETECTION LIMIT
Benzene	ND	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	ND	1
Toluene	ND	1
Xylenes	ND	1

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	104



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92719
MATRIX: SOLID

DATE RECEIVED: 7/19/91
DATE EXTRACTED: 7/19/91
DATE ANALYZED: 7/19/91

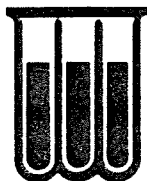
SAMPLE ID: INTRA-LAB BLANK , 7 /19/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	4
Chlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
Ethylbenzene	ND	4
Toluene	ND	4
Xylenes	ND	4

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	103



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92720
MATRIX: SOLID

DATE RECEIVED: 7/20/91
DATE EXTRACTED: 7/20/91
DATE ANALYZED: 7/20/91

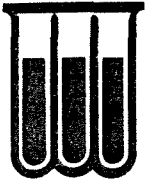
SAMPLE ID: INTRA-LAB BLANK , 07/20/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	4
Chlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
Ethylbenzene	ND	4
Toluene	ND	4
Xylenes	ND	4

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	97



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92722
MATRIX: SOLID

DATE RECEIVED: 7/22/91
DATE EXTRACTED: 7/22/91
DATE ANALYZED: 7/22/91

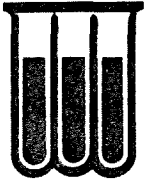
SAMPLE ID: INTRA-LAB BLANK , 7 /22/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	4
Chlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
Ethylbenzene	ND	4
Toluene	ND	4
Xylenes	ND	4

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	97



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9091-90723
MATRIX: WATER

DATE RECEIVED: 7/23/91
DATE EXTRACTED: NA
DATE ANALYZED: 7/23/91

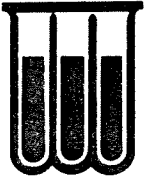
SAMPLE ID: INTRA-LAB BLANK , 7 /23/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/l)	DETECTION LIMIT
Benzene	ND	1
Chlorobenzene	ND	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Ethylbenzene	ND	1
Toluene	ND	1
Xylenes	ND	1

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	94



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/ALERT Laboratories
LAB #: 9291-92723
MATRIX: SOLID

DATE RECEIVED: 7/23/91
DATE EXTRACTED: 7/23/91
DATE ANALYZED: 7/23/91

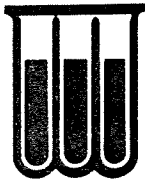
SAMPLE ID: INTRA-LAB BLANK , 7 /23/91

SELECTED ORGANIC COMPOUNDS ANALYTICAL BLANK REPORT

PARAMETER	RESULT (ug/kg)	DETECTION LIMIT
Benzene	ND	4
Chlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
Ethylbenzene	ND	4
Toluene	ND	4
Xylenes	ND	4

NOTE: ND (None Detected)

SURROGATES:	ACCEPTABLE LIMITS		%
	WATER	SOLID	
Fluorobenzene (PID)	(75-125)	(65-103)	94



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/Alert Laboratories
LAB #: 9291-92711
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/11/91

SAMPLE ID: INTRA-LAB BLANK , 7 /11/91

BASE/NEUTRAL EXTRACTABLE ORGANICS
ANALYTICAL BLANK REPORT (1 of 2)

Acenaphthene	ND	4-Chlorophenyl phenyl ether	ND
Acenaphthylene	ND	Chrysene	ND
Anthracene	ND	Dibenzo(a,h)anthracene	ND
Benzenidine	ND*	Dibenzofuran	ND
Benzo(a)anthracene	ND	Di-n-butyl phthalate	410
Benzo(b)fluoranthene	ND	1,2-Dichlorobenzene	ND
Benzo(k)fluoranthene	ND	1,3-Dichlorobenzene	ND
Benzo(ghi)perylene	ND	1,4-Dichlorobenzene	ND
Benzo(a)pyrene	ND	3,3'-Dichlorobenzidine	ND*
Benzyl alcohol	ND	Diethyl phthalate	ND
Bis(2-chloroethoxy)methane	ND	Dimethyl phthalate	ND
Bis(2-chloroethyl)ether	ND	2,4-Dinitrotoluene	ND
Bis(2-chloroisopropyl)ether	ND	2,6-Dinitrotoluene	ND
Bis(2-ethylhexyl)phthalate	40 J	Di-n-octyl phthalate	ND
4-Bromophenyl phenyl ether	ND	1,2-Diphenylhydrazine	ND
Butyl benzyl phthalate	ND	Fluoranthene	ND
4-Chloroaniline	ND	Fluorene	ND
2-Chloronaphthalene	ND	Hexachlorobenzene	ND

NOTE: ND (None Detected, lower detectable limit = 330 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 1600 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
-- (Not Analyzed)



WADSWORTH/ALERT
LABORATORIES, INC.

COMPANY: Wadsworth/Alert Laboratories
LAB #: 9291-92711
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/11/91

SAMPLE ID: INTRA-LAB BLANK , 7 /11/91

BASE/NEUTRAL EXTRACTABLE ORGANICS
ANALYTICAL BLANK REPORT (2 of 2)

Hexachlorobutadiene	ND
Hexachlorocyclopentadiene	ND
Hexachloroethane	ND
Indeno(1,2,3-cd)pyrene	ND
Isophorone	ND
2-Methylnaphthalene	ND
Naphthalene	ND
Nitrobenzene	ND
2-Nitroaniline	ND*
3-Nitroaniline	ND*
4-Nitroaniline	ND*
N-Nitrosodimethylamine	ND
N-Nitrosodiphenylamine	ND
N-Nitrosodi-n-propylamine	ND
Phenanthrene	ND
Pyrene	ND
1,2,4-Trichlorobenzene	ND

NOTE: ND (None Detected, lower detectable limit = 330 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 1600 ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
— (Not Analyzed)

SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
Nitrobenzene-d5	83	(35-114)	(23-120)
Fluorobiphenyl	90	(43-116)	(30-115)
Terphenyl-d14	82	(33-141)	(18-137)



WADSWORTH/ALERT
LABORATORIES, INC.

CLIENT : Wadsworth/Alert Laboratories
LAB #: 9291-92711
MATRIX: SOLID

DATE RECEIVED: 7/11/91
DATE EXTRACTED: 7/11/91
DATE ANALYZED: 7/11/91

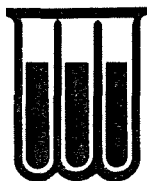
SAMPLE ID: INTRA-LAB BLANK , 7 /11/91

ACID EXTRACTABLE ORGANICS
ANALYTICAL BLANK REPORT

Benzoic acid	ND*
4-Chloro-3-methylphenol	ND
2-Chlorophenol	ND
2,4-Dichlorophenol	ND
2,4-Dimethylphenol	ND
2,4-Dinitrophenol	ND*
2-Methyl-4,6-dinitrophenol	ND*
2-Methylphenol	ND
4-Methylphenol	ND
2-Nitrophenol	ND
4-Nitrophenol	ND*
Pentachlorophenol	ND*
Phenol	ND
2,4,5-Trichlorophenol	ND
2,4,6-Trichlorophenol	ND

NOTE: ND (None Detected, lower detectable limit = 330 ug/kg) as rec'd
ND* (None Detected, lower detectable limit = 1600 ug/kg) as rec'd
ND** (None Detected, lower detectable limit = ug/kg) as rec'd
J (Detected, but below quantitation limit; estimated value)
-- (Not Analyzed)

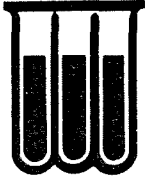
SURROGATE RECOVERY:	%	ACCEPTABLE LIMITS	
		WATER	SOLID
2-Fluorophenol	70	(21-100)	(25-121)
Phenol-d5	92	(10-94)	(24-113)
2,4,6-Tribromophenol	110	(10-123)	(19-122)



WADSWORTH/ALERT
LABORATORIES, INC.

MATRIX SPIKE DATA

LAB ID	ANALYSIS DATE	PARAMETER	SPIKE PERCENT RECOVERY	SPK/DUP PERCENT RECOVERY	SPIKE MATRIX	QC CONTROL LIMITS
VOLATILE ORGANIC COMPOUNDS						
57451	7/17/91	Benzene	74	100	SOLID	(38-142)
		Toluene	88	110		(43-131)
		Ethylbenzene	84	92		(70-130)
		Xylene	92	101		(37-133)
		Chlorobenzene	106	122		(70-130)
VOLATILE ORGANIC COMPOUNDS						
57466	7/22/91	Benzene	96	98	SOLID	(38-142)
		Toluene	102	119		(43-131)
		Ethylbenzene	87	79		(70-130)
		Xylene	99	0*		(37-133)
		Chlorobenzene	90	98		(70-130)
VOLATILE ORGANIC COMPOUNDS						
57511	7/20/91	Benzene	107	109	SOLID	(38-142)
		Toluene	110	113		(43-131)
		Ethylbenzene	102	101		(70-130)
		Xylene	116	111		(37-133)
		Chlorobenzene	87	88		(70-130)



WADSWORTH/ALERT
LABORATORIES, INC.

MATRIX SPIKE DATA

LAB ID	ANALYSIS DATE	PARAMETER	SPIKE PERCENT RECOVERY	SPK/DUP PERCENT RECOVERY	SPIKE MATRIX	QC CONTROL LIMITS
		GC VOLATILE COMPOUNDS				
910715	7/15/91	1,1-Dichloroethene	88	94	WATER	(55-120)
		Trichloroethene	132	132		(72-124)
		Chlorobenzene	116	118		(80-125)
		Toluene	110	112		(77-126)
		Benzene	94	96		(79-123)



HATCHER-SAYRE, INC.

CHAIN OF CUSTODY RECORD

PROJECT CUI - SAUKVILLE INCIN. CLOSURE				NUMBER OF CONTAINERS	SAMPLE TYPE (CHECK BOX)		ANALYSES REQUIRED	REMARKS OR SAMPLE LOCATION										PRESERVATION	
PROJECT NO. 0001-001					GRAB	COMPOSITE												ICED	SPECIFY CHEMICALS
SAMPLER'S SIGNATURE <i>Robert D. Money</i>																			
PRINTED NAME Robert D. Money																			
HATCHER-SAYRE, INC. SAMPLE NO.	DATE	TIME	MATRIX																
3902	7/9	10:55	SOIL	1	X		X										BI-6 4.5-6	4°C	NP
3903		11:00		1	X		X										BI-6 7.5-9		
3904		11:05		1	X		X										BI-6 9.5-11		
3905		11:25		1	X		X										BI-7 1.5-3		
3906		11:30		1	X		X										BI-7 4.5-6		
3907		11:35		1	X		X										BI-7 7.5-9		
3908		11:40		1	X		X										BI-7 9.5-11		
3909		11:55		1	X		X										BI-8 1.5-3		
3910		12:00		1	X		X										BI-8 4.5-6		
3911		12:00		1	X		X										BI-8 4.5-6		
3912		12:00	WATER	2	X		X										FB-3		HCL
3913		12:05	SOIL	1	X		X										BI-8 7.5-9		NP
RELINQUISHED BY (SIGNATURE): <i>Robert D. Money</i> DATE: 7/10 TIME: 13:30				RELINQUISHED TO (SIGNATURE):				SHIPPING COMPANY:				SHIPPING TICKET NO.:							
RELINQUISHED BY (SIGNATURE):				RELINQUISHED TO (SIGNATURE):				REMARKS:											
RELINQUISHED BY (SIGNATURE):				RELINQUISHED TO (SIGNATURE):															
CONTRACT LAB				RECEIVED FOR LAB BY (SIGNATURE): <i>Donna J. Backus</i> DATE: 7-11-91 TIME: 10:14 AM				TURNAROUND REQUIRED <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS				<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> OTHER _____							



HATCHER-SAYRE, INC.

CHAIN OF CUSTODY RECORD

PROJECT CEP SAUKVILLE INCIN CLOSURE				NUMBER OF CONTAINERS	SAMPLE TYPE (CHECK BOX)		ANALYSES REQUIRED	REMARKS OR SAMPLE LOCATION										PRESERVATION	
PROJECT NO. 0001-001					GRAB	COMPOSITE												ICED	SPECIFY CHEMICALS
SAMPLER'S SIGNATURE <i>Robert D. Money</i>																			
PRINTED NAME Keith Stigall / Robert D. Money																			
HATCHER-SAYRE, INC. SAMPLE NO.	DATE	TIME	MATRIX																
3914	7/9	12:10	SOIL	1	x	x											BI-B 9.5-11	HCL	NP
3915		12:35		1	x	x											I-1 1.5-3		
3916		12:40		1	x	x											I-1 4.5-6		
3917		12:45		1	x	x											I-1 7.5-9		
3918		12:50		1	x	x											I-1 9.5-11		
3919		13:30		1	x	x											I-2 1.5-3		
3920		13:35		1	x	x											I-2 4.5-6		
3921		13:40		1	x	x											I-2 7.5-9		
3922		13:45		1	x	x											I-2 9.5-11		
3923		13:45	↓	1	x	x											I-2 9.5-11		↓
3924		13:45	WATER	2	x	x											FB-4		HCL
3925		13:48	WATER	2	x	x											FIELD BLANK		HCL

<i>Robert D. Money</i> RELINQUISHED BY (SIGNATURE):	7/10 DATE	13:50 TIME	RELINQUISHED TO (SIGNATURE):	SHIPPING COMPANY	SHIPPING TICKET NO.
RELINQUISHED BY (SIGNATURE):	DATE	TIME	RELINQUISHED TO (SIGNATURE):	REMARKS:	
RELINQUISHED BY (SIGNATURE):	DATE	TIME	RELINQUISHED TO (SIGNATURE):		
RELINQUISHED BY (SIGNATURE):	DATE	TIME	RELINQUISHED TO (SIGNATURE):		
CONTRACT LAB	<i>Annas Packus</i> RECEIVED FOR LAB BY (SIGNATURE):	7-11-91 DATE	10:14 TIME	TURNAROUND REQUIRED	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> OTHER _____



HATCHER-SAYRE, INC.

CHAIN OF CUSTODY RECORD

PROJECT CCP SAVKVILLE Incin. CLOSURE				NUMBER OF CONTAINERS	SAMPLE TYPE (CHECK BOX)		ANALYSES REQUIRED										PRESERVATION		
PROJECT NO. 0001-001					GRAB	COMPOSITE	<div style="display: flex; justify-content: space-between;"> 8020 8240 8270 </div>										REMARKS OR SAMPLE LOCATION	ICED	SPECIFY CHEMICALS
SAMPLER'S SIGNATURE <i>Robert D. Money</i>																			
PRINTED NAME Keith Sigall / Robert D. Money																			
HATCHER-SAYRE, INC. SAMPLE NO.	DATE	TIME	MATRIX																
3926	7/9	13:55	SOIL	1	X		X										I-3 1.5-3	4°C	ND
3927		14:00		1	X		X										I-3 4.5-6		
3928		14:05		1	X		X										I-3 7.5-9		
3929		14:10		1	X		X										I-3 9.5-11		
3930		14:20		2	X		X	X									I-4 1.5-3		
3931		14:25		2	X		X	X									I-4 4.5-6		
3932		14:30		2	X		X	X									I-4 7.5-9		
3933		14:35		2	X		X	X									I-4 9.5-11		
3934		15:00		1	X		X										I-5 1.5-3		
3935		15:05		1	X		X										I-5 4.5-6		
3936		15:05		1	X		X										I-5 4.5-6		
3937		15:05	WATER	2	X		X										FB-5		HCL
<i>Robert D. Money</i> RELINQUISHED BY (SIGNATURE):		7/10	13:30	RELINQUISHED TO (SIGNATURE):				SHIPPING COMPANY				SHIPPING TICKET NO.							
RELINQUISHED BY (SIGNATURE):		DATE	TIME	RELINQUISHED TO (SIGNATURE):				REMARKS:											
RELINQUISHED BY (SIGNATURE):		DATE	TIME	RELINQUISHED TO (SIGNATURE):															
RELINQUISHED BY (SIGNATURE):		DATE	TIME	RELINQUISHED TO (SIGNATURE):															
CONTRACT LAB		<i>Donna J. Backus</i> RECEIVED FOR LAB BY (SIGNATURE):		7-11-91	10:14am	TURNAROUND REQUIRED		<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS	<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> OTHER _____										



HATCHER-SAYRE, INC.

CHAIN OF CUSTODY RECORD

PROJECT CCP SAVICVILLE INCIN CLOSURE				NUMBER OF CONTAINERS	SAMPLE TYPE (CHECK BOX)		ANALYSES REQUIRED												PRESERVATION	
PROJECT NO. 0001-001					GRAB	COMPOSITE	<div style="display: flex; justify-content: space-between;"> 8020 8240 </div>												ICED	SPECIFY CHEMICALS
SAMPLER'S SIGNATURE <i>Robert D. Money</i>																				
PRINTED NAME Keith Stigell / Robert D. Money				REMARKS OR SAMPLE LOCATION																
HATCHER-SAYRE, INC. SAMPLE NO.	DATE	TIME	MATRIX																	
3950	7/9	16:35	SOIL	1	X			X										I-8	4°C	ZP
3951		16:40		1	X			X										I-8		
3952		16:45		1	X			X										I-8		
3953		16:50		1	X			X										I-8		
3954			WATER	2				X										TRIP BLANK		HCL
3955			WATER	2				X										TRIP BLANK		HCL

<i>Robert D. Money</i> RELINQUISHED BY (SIGNATURE):	7/10 DATE	13:30 TIME	RELINQUISHED TO (SIGNATURE):	SHIPPING COMPANY	SHIPPING TICKET NO.		
RELINQUISHED BY (SIGNATURE):	DATE	TIME	RELINQUISHED TO (SIGNATURE):	REMARKS:			
RELINQUISHED BY (SIGNATURE):	DATE	TIME	RELINQUISHED TO (SIGNATURE):				
RELINQUISHED BY (SIGNATURE):	DATE	TIME	RELINQUISHED TO (SIGNATURE):				
CONTRACT LAB	<i>Donna J. Backus</i> RECEIVED FOR LAB BY (SIGNATURE):		7-11-91 DATE	10:14 am TIME	TURNAROUND REQUIRED	<input type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS	<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> OTHER _____

APPENDIX C

Physical Testing of Soil Samples

SUMMARY OF LABORATORY TEST RESULTS

HOLE NO.	SAMPLE NO.	SAMPLE TYPE	DEPTH	NATURAL MOISTURE (%)	UNIT WEIGHT (PCF)		ATTERBERG LIMITS		USC	TRIAxIAL SHEAR TEST		OTHER TESTS **	PROJECT Cook Composites & Polymers Incinerator Closure
					WET	DRY	LIQUID LIMIT (%)	PLASTICITY INDEX (%)		σ	C (KSF)		UNCONFINED COMPRESSION TEST (KSF)
												DATE	
BI-3	3	SS	7.5-9.0'	15.9			15	2	ML			S	SILT
BI-3	4	SS	9.5-11.0'	13.5			18	4	CL-ML			S	SILTY CLAY
BI-4	2	SS	4.5-6.0'	10.6			16	2	GM			S	Silty GRAVEL with sand
BI-5	2	SS	4.5-6.0'	16.0			40	29	GC			S	Clayey GRAVEL with SAND
BI-6	1	SS	1.5-3.0'	2.5			16	2	GM			S	Silty GRAVEL with SAND
BI-6	2	SS	4.5-6.0'	8.6			18	3	GW			S	Well graded Gravel with sand

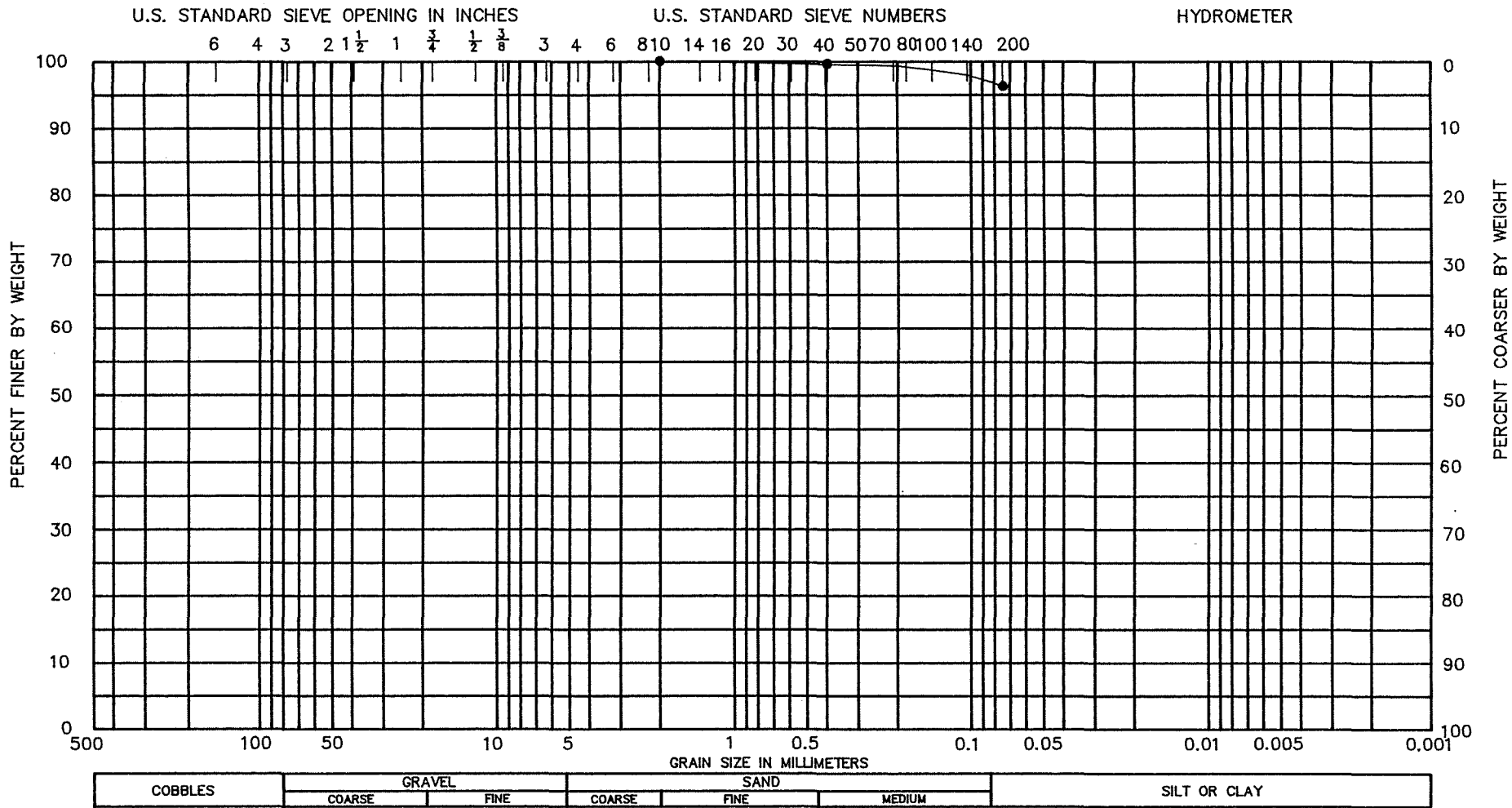
* ST-SHELBY TUBE SAMPLE, SS-SPLIT SPOON SAMPLE, B-BAG SAMPLE
 ** TEST RESULTS REPORTED ON OTHER SHEET:
 C-CONSOLIDATION
 S-SIEVE OR GRAIN SIZE ANALYSIS D-DIRECT SHEAR TEST
 U-UNCONFINED COMPRESSION TEST T-TRIAxIAL TEST

CHECKED BY: SGW



HATCHER - SAYRE, INC.

GRAIN SIZE ANALYSIS



PROJECT No. 0001-001

DESCRIPTION: SILTY CLAY

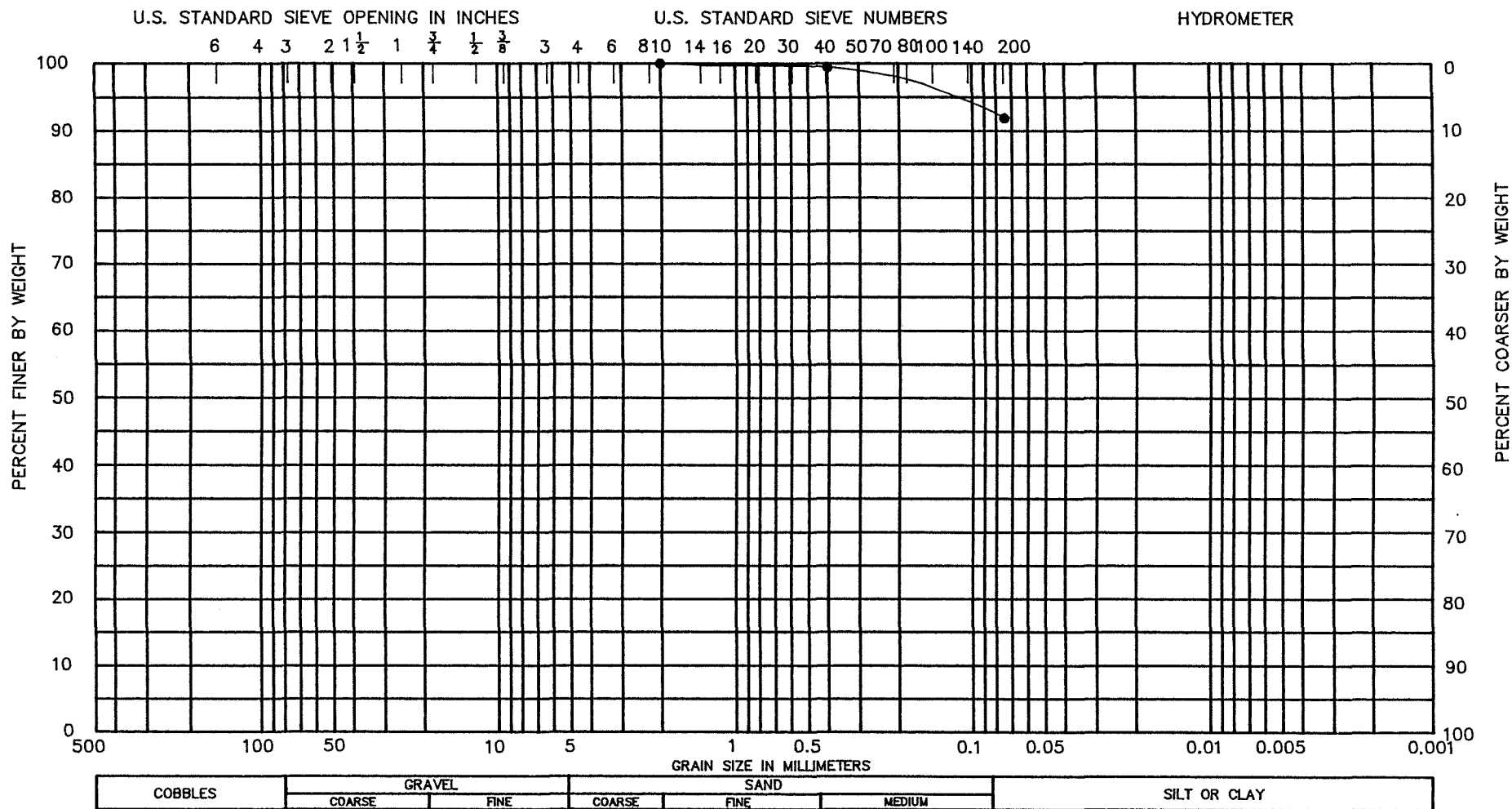
BORING: BI-3
 SAMPLE: 3
 DEPTH: 7.5-9.0'

REMARKS:



HATCHER-SAYRE, INC.

GRAIN SIZE ANALYSIS



PROJECT No. 0001-001

DESCRIPTION: SILT

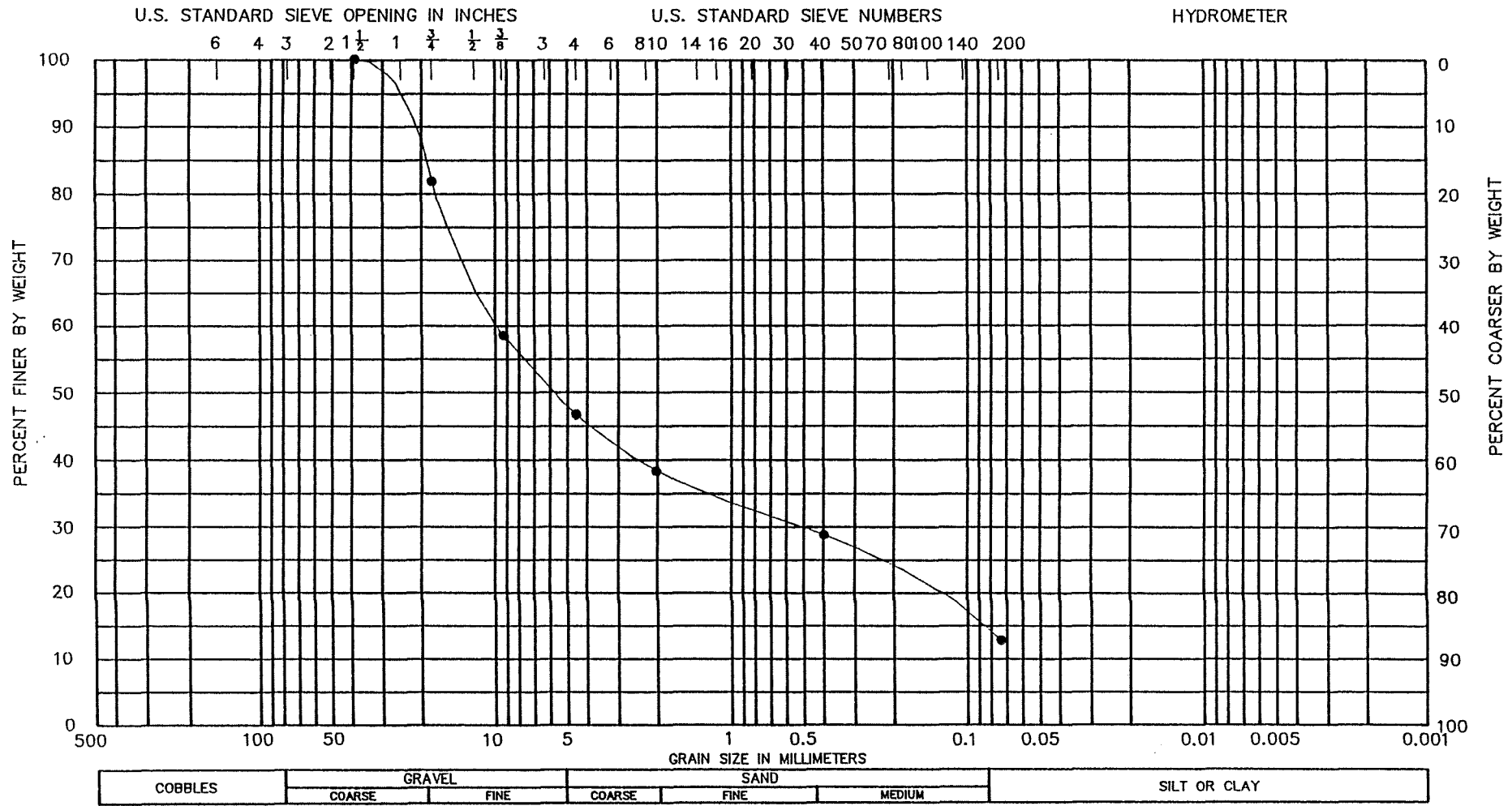
BORING: BI-3
 SAMPLE: 4
 DEPTH: 9.5-11.0'

REMARKS:



HATCHER-SAYRE, INC.

GRAIN SIZE ANALYSIS



PROJECT No. 0001-001

DESCRIPTION: SILTY GRAVEL WITH SAND

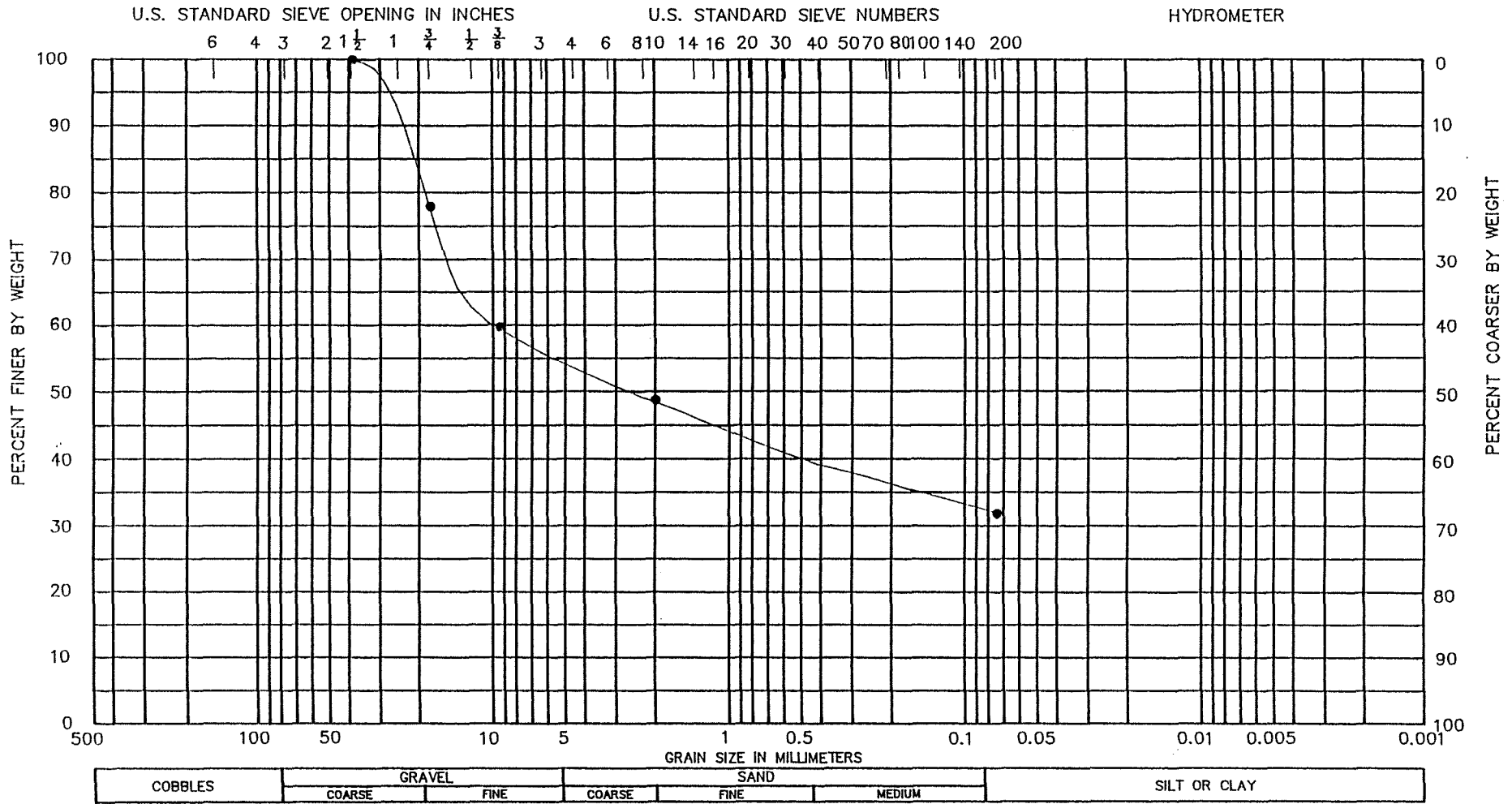
BORING: BI-4
 SAMPLE: 2
 DEPTH: 4.5-6.0'

REMARKS:



HATCHER-SAYRE, INC.

GRAIN SIZE ANALYSIS



PROJECT No. 0001-001

DESCRIPTION: CLAYEY SAND with gravel

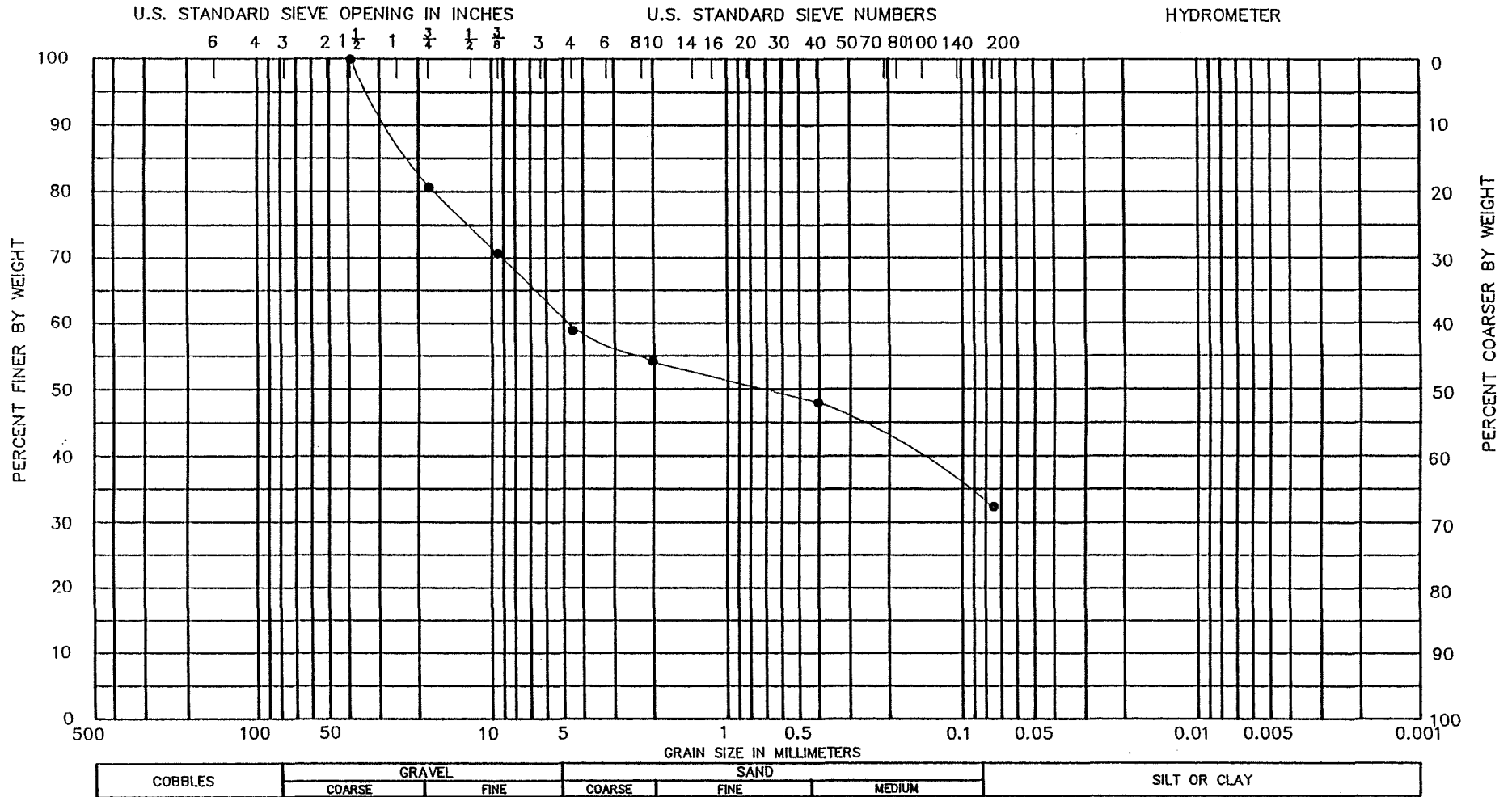
BORING: BI-5
 SAMPLE: 2
 DEPTH: 4.5-6.0'

REMARKS:



HATCHER--SAYRE, INC.

GRAIN SIZE ANALYSIS



PROJECT No. 0001-001

DESCRIPTION: SILTY SAND with gravel

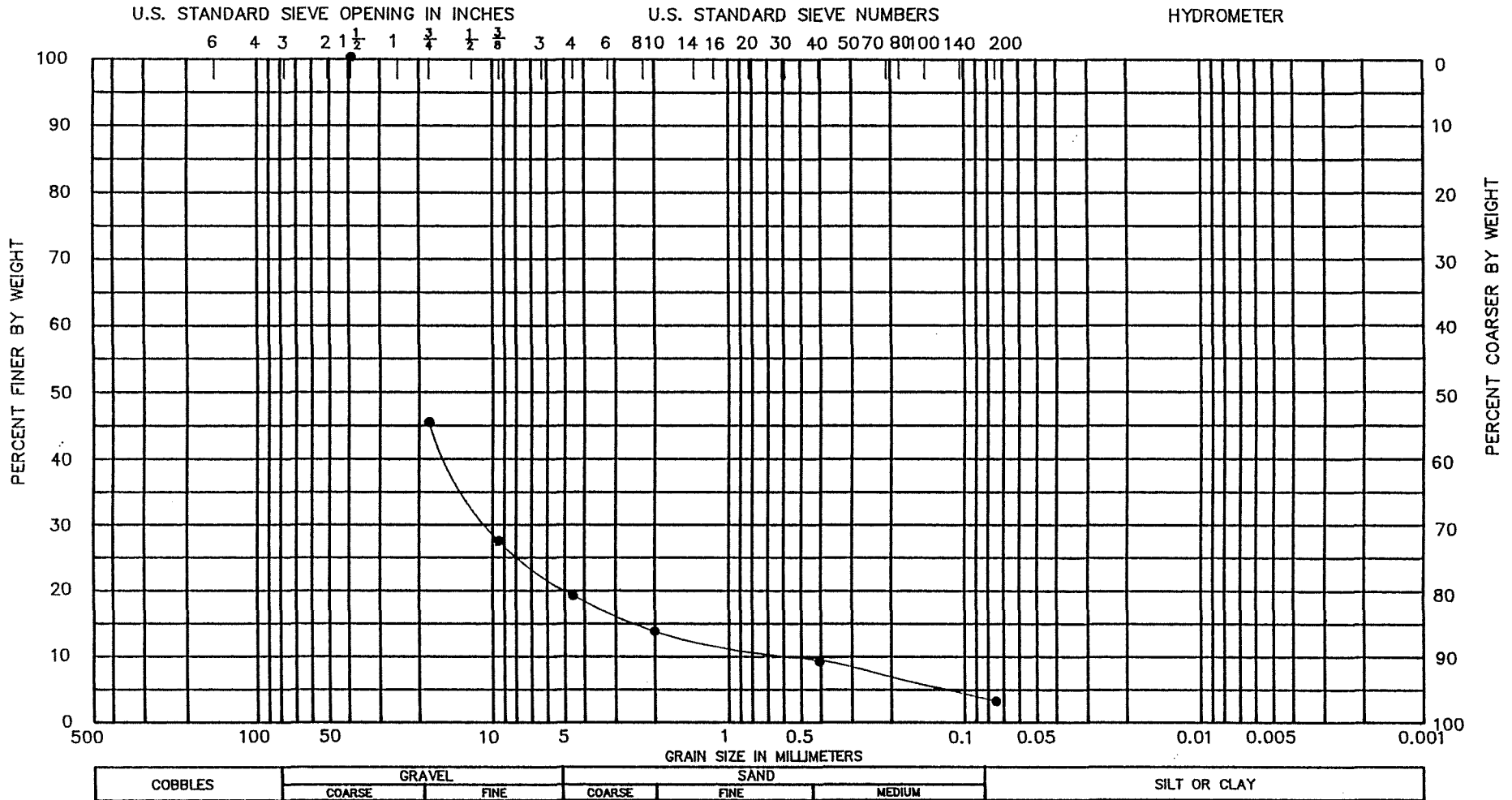
BORING: BI-6
 SAMPLE: 1
 DEPTH: 1.5-3.0'

REMARKS:



HATCHER-SAYRE, INC.

GRAIN SIZE ANALYSIS



PROJECT No. 0001-001

DESCRIPTION: POORLY GRADED GRAVEL with sand

BORING: BI-6
 SAMPLE: 2
 DEPTH: 4.5-6.0

REMARKS:



HATCHER-SAYRE, INC.

APPENDIX D
Statistical Analyses

WILCOXON RANK SUM TEST
CCP - INCINERATOR CLOSURE
SAUKVILLE, WISCONSIN

TEST PARAMETER = BENZENE
CONCENTRATIONS IN MG/KG

SAMPLE DEPTH = 1.5' - 3.0'				SAMPLE DEPTH = 4.5' - 6.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	5.5	0.2 *	12	0.002 *	5	37 *	14
0.012 *	11	0.45 *	13	0.002 *	5	0.15 *	10
0.002 *	5.5	11 *	16	0.002 *	5	215 *	16
0.002 *	5.5	3.15 *	14	0.002 *	5	31.5 *	13
0.002 *	5.5	5 *	15	0.002 *	5	10 *	12
0.002 *	5.5	0.001 *	1	0.002 *	5	0.001 *	1
0.002 *	5.5	0.009 *	10	0.0065 *	9	90 *	15
0.002 *	5.5	0.002 *	5.5	0.6 *	11	0.002 *	5
		W	=			W	=
		86.5				86	
		$w(0.052, 8, 8) =$				$w(0.052, 8, 8) =$	
		84				84	
		W > w				W > w	

(I.E. INCINERATOR SOILS > BACKGROUND) (I.E. INCINERATOR SOILS > BACKGROUND)

SAMPLE DEPTH = 7.5' - 9.0'				SAMPLE DEPTH = 9.5' - 11.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	4.5	0.5 *	11	0.002 *	4	0.25 *	9.5
0.002 *	4.5	0.0125 *	8	0.1 *	7.5	0.001 *	1.5
0.002 *	4.5	4.5 *	16	0.002 *	4	4.5 *	14
0.002 *	4.5	0.8 *	14	0.002 *	4	0.65 *	12
0.002 *	4.5	0.75 *	13	0.005	6	1.2 *	13
0.002	4.5	0.001 *	1	0.5 *	11	0.001 *	1.5
0.5 *	11	1 *	15	0.25 *	9.5	0.1 *	7.5
0.5 *	11	0.1 *	9				
		W	=			W	=
		87				59	
		$w(0.052, 8, 8) =$				$w(0.049, 7, 7) =$	
		84				66	
		W > w				W < w	

(I.E. INCINERATOR SOILS > BACKGROUND)

(I.E. NO DIFFERENCE)

NOTE:

- W = SUM OF THE R(y) RANKS
- $w(\alpha, m, n)$ = W TEST STATISTIC CONSTANT
- alpha = CONFIDENCE LEVEL (VALUE CLOSEST TO 0.05 USED)
- m = NUMBER OF SAMPLES FROM BACKGROUND AREA
- n = NUMBER OF SAMPLES FROM INCINERATOR AREA
- * = NONE DETECTED (LISTED VALUE IS ONE-HALF DETECTION LIMIT)

WILCOXON RANK SUM TEST
CCP - INCINERATOR CLOSURE
SAUKVILLE, WISCONSIN

TEST PARAMETER = TOLUENE
CONCENTRATIONS IN MG/KG

SAMPLE DEPTH = 1.5' - 3.0'				SAMPLE DEPTH = 4.5' - 6.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	5.5	0.2 *	12	0.002 *	5	1200	15
0.012 *	11	0.45 *	13	0.002 *	5	0.15 *	10
0.002 *	5.5	74	16	0.002 *	5	1300	16
0.002 *	5.5	25	15	0.002 *	5	60	13
0.002 *	5.5	5 *	14	0.002 *	5	10 *	12
0.002 *	5.5	0.001 *	1	0.002 *	5	0.001 *	1
0.002 *	5.5	0.009 *	10	0.0065 *	9	90 *	14
0.002 *	5.5	0.002 *	5.5	5.2 *	11	0.002 *	5
		W	=			W	=
		86.5				86	
		w(0.052,8,8)=				w(0.052,8,8)=	
		84				84	
		W > w				W > w	
(I.E. INCINERATOR SOILS > BACKGROUND)				(I.E. INCINERATOR SOILS > BACKGROUND)			

SAMPLE DEPTH = 7.5' - 9.0'				SAMPLE DEPTH = 9.5' - 11.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	2.5	2.6	14	0.002 *	2.5	3.6	12
0.006	7	0.0125 *	8	0.3	8	0.007	5
0.002 *	2.5	23	16	0.002 *	2.5	30	14
0.002 *	2.5	1.8	13	0.002 *	2.5	2.5	11
0.004	6	1.7	12	0.002 *	2.5	1.2 *	10
0.002 *	2.5	0.003	5	0.5 *	9	0.009 *	6
0.5 *	10	1 *	11	19	13	0.1 *	7
4.6	15	0.2	9				
		W	=			W	=
		88				65	
		w(0.052,8,8)=				w(0.049,7,7)=	
		84				66	
		W > w				W < w	
(I.E. INCINERATOR SOILS > BACKGROUND)				(I.E. NO DIFFERENCE)			

NOTE:

- W = SUM OF THE R(y) RANKS
- w(alpha,m,n) = W TEST STATISTIC CONSTANT
- alpha = CONFIDENCE LEVEL (VALUE CLOSEST TO 0.05 USED)
- m = NUMBER OF SAMPLES FROM BACKGROUND AREA
- n = NUMBER OF SAMPLES FROM INCINERATOR AREA
- * = NONE DETECTED (LISTED VALUE IS ONE-HALF DETECTION LIMIT)

WILCOXON RANK SUM TEST
CCP - INCINERATOR CLOSURE
SAUKVILLE, WISCONSIN

TEST PARAMETER = ETHYLBENZENE
CONCENTRATIONS IN MG/KG

SAMPLE DEPTH = 1.5' - 3.0'				SAMPLE DEPTH = 4.5' - 6.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	3.5	2.1	13	0.002 *	4.5	1400	15
0.04	11	2	12	0.02	9	0.15 *	10
0.019	7	160	16	0.002 *	4.5	3000	16
0.009	6	74	15	0.002 *	4.5	460	13
0.033	10	50	14	0.002 *	4.5	50	12
0.002 *	3.5	0.001 *	1	0.002 *	4.5	0.001 *	1
0.002 *	3.5	0.026	8	0.013	8	930	14
0.031	9	0.002 *	3.5	16	11	0.002 *	4.5
-----				-----			
W =			82.5	W =			85.5
w(0.052, 8, 8) =			84	w(0.052, 8, 8) =			84
W < w				W > w			
(I.E. NO DIFFERENCE)				(I.E. INCINERATOR SOILS > BACKGROUND)			

SAMPLE DEPTH = 7.5' - 9.0'				SAMPLE DEPTH = 9.5' - 11.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	3	3.5	10	0.002 *	3	6.8	10
0.12	8	0.0125 *	7	4.8	8	0.002	3
0.002 *	3	76	16	0.002 *	3	76	14
0.002 *	3	11	14	0.002 *	3	11	13
0.002 *	3	7.9	13	0.002 *	3	8.2	11
0.002 *	3	0.003	6	9.8	12	0.006	6
4.7	12	14	15	6.3	9	1.6	7
4.1	11	1.5	9	-----			
W =			90	W =			64
w(0.052, 8, 8) =			84	w(0.049, 7, 7) =			66
W > w				W < w			
(I.E. INCINERATOR SOILS > BACKGROUND)				(I.E. NO DIFFERENCE)			

NOTE:

- W = SUM OF THE R(y) RANKS
- w(alpha, m, n) = W TEST STATISTIC CONSTANT
- alpha = CONFIDENCE LEVEL (VALUE CLOSEST TO 0.05 USED)
- m = NUMBER OF SAMPLES FROM BACKGROUND AREA
- n = NUMBER OF SAMPLES FROM INCINERATOR AREA
- * = NONE DETECTED (LISTED VALUE IS ONE-HALF DETECTION LIMIT)

WILCOXON RANK SUM TEST
CCP - INCINERATOR CLOSURE
SAUKVILLE, WISCONSIN

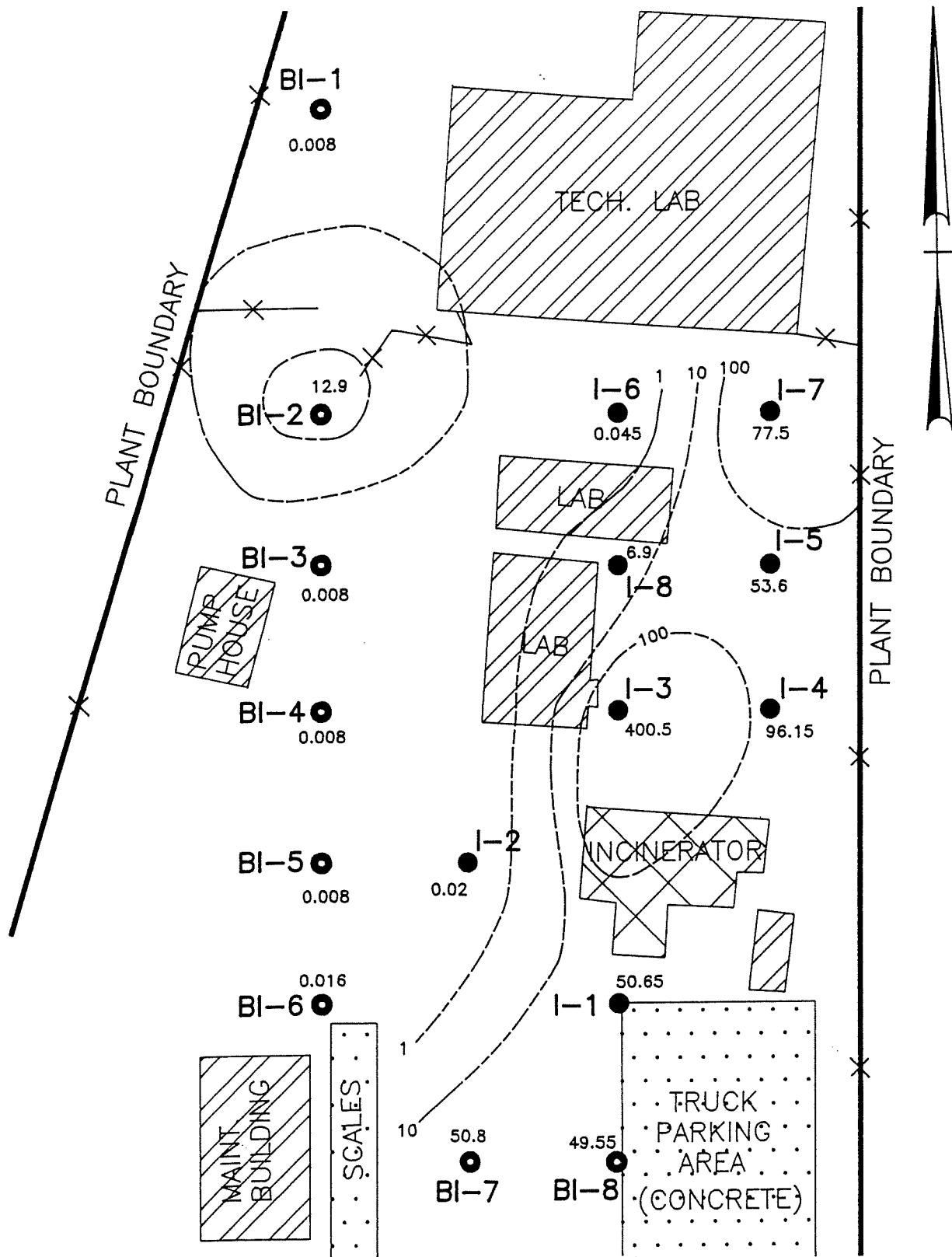
TEST PARAMETER = XYLENES(TOTAL)
CONCENTRATIONS IN MG/KG

SAMPLE DEPTH = 1.5' - 3.0'				SAMPLE DEPTH = 4.5' - 6.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	2	11	13	0.002 *	3	7000	15
0.79	12	0.45 *	10	0.26	8	2.6	10
0.19	8	740	16	0.002 *	3	12000	16
0.17	7	360	15	0.002 *	3	2400	13
0.31	9	260	14	0.002 *	3	890	12
0.002 *	2	0.006	4	0.008	7	0.004	6
0.002 *	2	0.62	11	0.32	9	6400	14
0.15	6	0.016	5	83	11	0.002 *	3
W =			88	W =			89
w(0.052, 8, 8) =			84	w(0.052, 8, 8) =			84
W > w				W > w			
(I.E. INCINERATOR AREA > BACKGROUND)				(I.E. INCINERATOR AREA > BACKGROUND)			

SAMPLE DEPTH = 7.5' - 9.0'				SAMPLE DEPTH = 9.5' - 11.0'			
BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)	BACKGROUND AREA	R(x)	INCINERATOR AREA	R(y)
0.002 *	2	20	11	0.002 *	2.5	40	10.5
0.14	14	0.093	7	7.7	8	0.01	5
0.002 *	2	300	16	0.002 *	2.5	290	14
0.002 *	2	93	14	0.002 *	2.5	82	13
0.011	5	61	13	0.002 *	2.5	43	12
0.004	4	0.014	6	40	10.5	0.029	6
22	12	96	15	24	9	5.1	7
19	10	5	9				
W =			91	W =			67.5
w(0.052, 8, 8) =			84	w(0.049, 7, 7) =			66
W > w				W > w			
(I.E. INCINERATOR AREA > BACKGROUND)				(I.E. INCINERATOR AREA > BACKGROUND)			

NOTE:

- W = SUM OF THE R(y) RANKS
- w(alpha, m, n) = W TEST STATISTIC CONSTANT
- alpha = CONFIDENCE LEVEL (VALUE CLOSEST TO 0.05 USED)
- m = NUMBER OF SAMPLES FROM BACKGROUND AREA
- n = NUMBER OF SAMPLES FROM INCINERATOR AREA
- * = NONE DETECTED (LISTED VALUE IS ONE-HALF DETECTION LIMIT)



ISOCONCENTRATION MAP
 TOTAL BTEX (mg/kg)
 9.5'-11.0' INTERVAL

