# Remedial Construction Certification Report for the Korkay, Inc. Site No. 5-18-014

Town of Broadalbin, Fulton County New York

May 2000

Prepared by: Camp Dresser & McKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Report



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May 8, 2000

Mr. Jeff Trad, PE New York State Department of Environmental Conservation Division of Environmental Remediation Bureau of Construction Services 50 Wolf Road Albany, New York 12233-7010

Subject: Korkay Inc. Site #5-18-014 Remedial Construction Certification

Dear Mr. Trad:

Camp Dresser & McKee (CDM) is pleased to submit 3 final copies of the Remedial Construction Certification Report for the Korkay, Inc. Site located in Broadalbin, New York. The report summarizes remedial activities at the site including soil vapor extraction, groundwater treatment, and combined air sparging and soil vapor extraction.

If you have any questions or need additional information, please call me at 482-3000.

Very truly yours,

CAMP DRESSER & McKEE

John P. Blaum Project Manager

Approved:

Richard A. Molongoski, P.E. Associate

Enclosures

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# Section 1 Background

## **1.1 Introduction**

This report summarizes the remedial activities associated with the groundwater, soil vapor extraction and air sparge treatment systems at the Korkay Inc. site, Site No. 5-18-014. The site is located in the Town of Broadalbin, Fulton County, New York. The report has been prepared by Camp Dresser & McKee for the New York State Department of Environmental Conservation (NYSDEC).

# **1.2 Site Description and History**

The site is located at 70 West Main Street in the Village of Broadalbin, Fulton County, New York. The Village of Broadalbin, approximately one square mile in size, is located almost entirely within the limits of the Town of Broadalbin. Land uses surrounding the site include a lumberyard and residences to the north, a residence to the west, a church to the east, and West Main Street to the south. Figure 1-1 presents the site location map and Figure 1-2 shows the site plan.

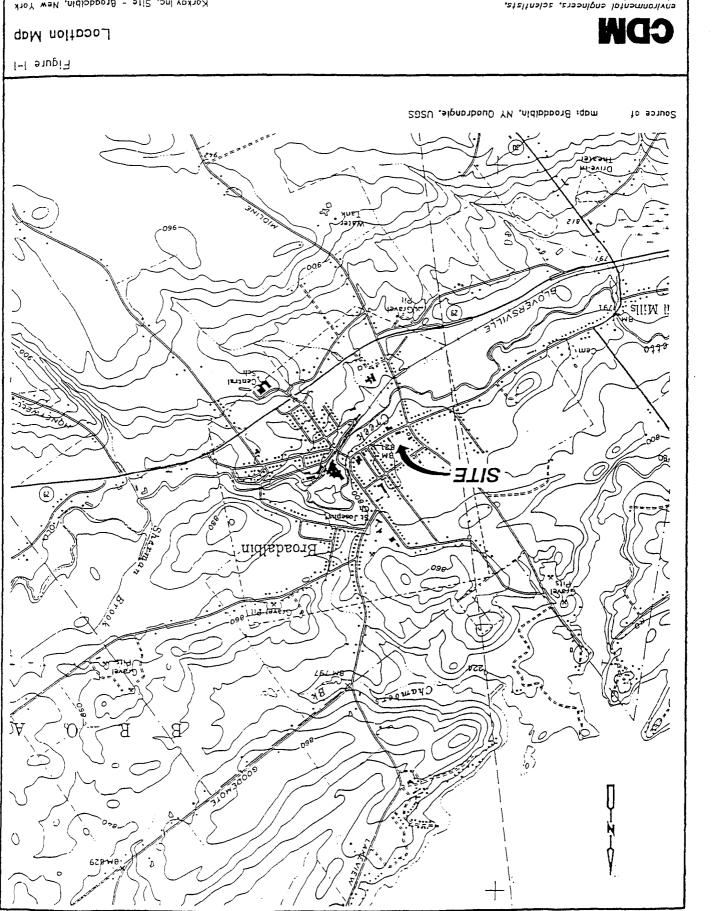
Kenneyetto Creek is the nearest surface water body, located on the south side of West Main Street, approximately 600 feet south of the site. All neighboring homes receive their drinking water from a public water system.

Korkay Inc. was a chemical supply company that, from 1969-1980, bought and stored bulk chemicals from other major chemical companies and blended these chemicals (detergents, solvents, etc.) into products such as car waxes, spray cleaners and hand cleaners. Korkay obtained previously used barrels, the former contents of which were unknown, and washed, stored and relined the barrels on site. Barrel washwater, washwater from spill cleanups, and vat cleaning water was discharged to an on-site septic system and ground surface that resulted in soil and groundwater contamination.

# **1.3 Summary of Previous Investigations**

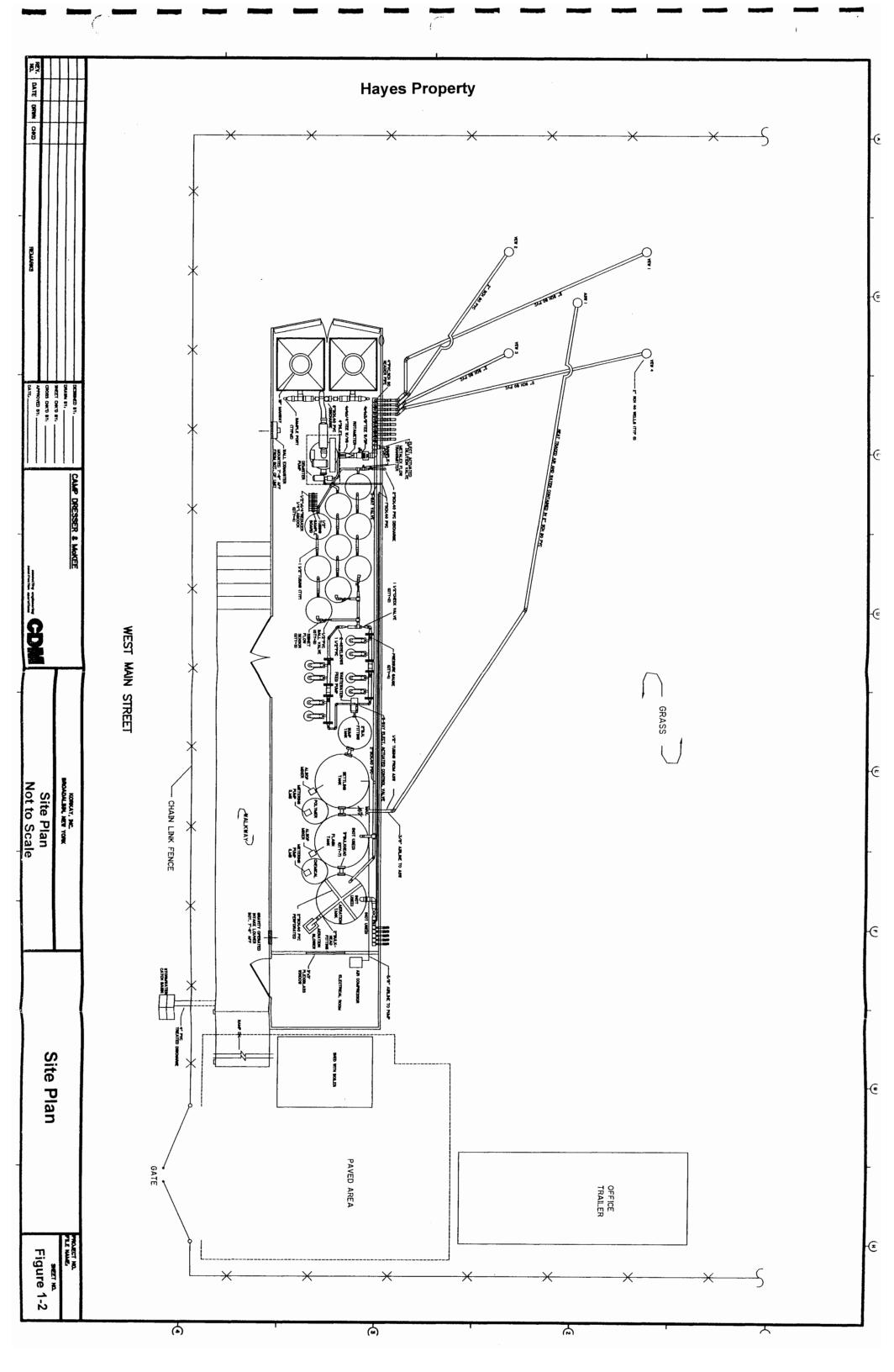
In 1979, following complaints from the neighboring property owners, personnel from the NYSDEC and NYSDOH conducted an inspection of the facility. During the inspection, it was observed that residue from the stored barrels leaked onto the ground creating puddles of unknown chemicals.

EA Science and Technology collected and analyzed groundwater samples from onsite monitoring wells installed during the preliminary site assessment detected several organic compounds including acetone and trichloroethene in exceedence of NYSDEC standards, criteria and guidance (SCG'S).



Korkay Inc. Site - Broddelbin, New York NYSDEC Site #5-18-014

επνίronmental engineers, scientists. planners, & management consultants



As a result of the inspection conducted by the NYSDEC and NYSDOH, Korkay Inc. installed a 4,000-gallon above ground holding tank in 1980 to contain vat cleaning and spill cleanup washwater. In 1985, Korkay Inc. replaced two underground tanks used for storing fuel oil and bulk chemicals with above ground tanks. Soon afterwards, Korkay, Inc. filed for bankruptcy.

During 1992 and 1993, the NYSDEC conducted another site inspection which resulted in a emergency response. Drums of hazardous wastes were staged and secured and a fence was erected around the rear of the property to control unauthorized access to the property. In 1993, the NYSDEC contracted with Camp, Dresser & McKee (CDM), a consulting engineering firm, to conduct a Remedial Investigations and Feasibility Study (RI/FS) at the Korkay site.

The RI was conducted in two phases. The first phase was conducted between September 1993 and April 1994 while the second phase was conducted between October 1994 and May 1995. The reports entitled Final RI Report dated April 1994 and Final Phase II RI Report dated May 1995 have been prepared describing, in detail, the field activities and findings of the RI.

Soil samples were taken and contamination was discovered. Volatile Organic Compounds (VOCs) detected in soil samples include trichloroethene, xylene, acetone, ethylbenzene and toluene with concentrations ranging from 2.6 to 78 ppm. Semivolatile organic compounds (SVOCs) detected include di-n-butylphthalate, benzo(a)pyrene, dibernzo(a,h)anthracene and phenol with concentrations ranging from 0.07 to 27 ppm. Pesticides detected include gamma-chlordane, aldrin, heptachlor epoxide, endrin (total) and dieldrin with concentrations ranging from 0.03 to 8.9 ppm.

Contaminants in the groundwater above class GA groundwater standards included the following VOCs (concentrations ranging from 6 to 800 ppb), SVOCs (concentrations ranging from 4 to 100 ppb) and Pesticides (concentrations ranging from 0.1 to 0.8 ppb):

Trichloroethene 1,2 - Dichloroethene Xylene Ethylbenzene Naphthalene 1,2 - Dichlorobenzene 2-Methylphenol Di-n-butylphthalate Aldrin Heptachlor Epoxide Dieldrin 4-DDE Soil and groundwater summary tables were presented in Section 4 of the August 1995 Phase II RI/FS report.

# Section 2 Summary of Remedial

## 2.1 General Overview

On January 30, 1997 Allstate Power Vac, Inc. (APV), was selected to complete remedial measures at the site. APV began to mobilize and started work on April 29, 1997.

The major remedial tasks completed at the site included:

- Mobilization to the site. This work included trailer setup, electric & telephone phone hook up, providing sanitary facilities, providing a solid waste disposal dumpster and the delivery of contractor equipment;
- Removal and dispose of all asbestos in the building as delineated in the asbestos survey performed by Hazardous Materials Management (HM2);
- Removing the drums generated by the Department during previous investigations and staging them on a polyethylene sheet with a polyethylene cover located at the north end of the site;
- Removal and disposal of the on-site empty drums to a metals recycler. A large quantity of clean empty containers, cardboard, tires and other plastics were also sent off site and recycled;
- Removing various process chemicals found in the building that were used by the former owner and staging them with the drums;
- Cataloging all of the drums & process chemicals and segregating them into different categories for disposal;
- Demolition of the on-site building, filling the basement with non-biodegradable crushed concrete block and off-site disposal of the remaining demolition debris;
- Filling in the on-site septic tanks and dry wells with sand;
- Removal and off-site disposal of all above and underground storage tanks;
- Removal and off-site disposal of contaminated surface soil.
- Removal and off-site disposal of all drummed material;
- Laboratory packing all process chemicals and off-site disposal.
- Regrading the site, placing topsoil and seeding the entire site;

- Completing all punch list items (i.e. removing miscellaneous debris, repairing the on-site trailer and mowing the lawn); and
- Final Completion issued (September 24, 1997).

Work was completed in accordance with the approved APV project plans and Contract Documents. Substantial Completion was issued on August 29, 1997 and Final Completion was issued on September 24, 1997. The most significant changes from the original contract documents dealt with drum removal and tank removal as discussed in Section 2.2 of this report. Quantity adjustments, based on actual site conditions, and discussed in Section 2.3.

# Section 3 Design Investigation

# 3.1 Treatability Pilot Study

Based on the results of the Phase I and Phase II Remedial Investigations conducted at the site, NYSDEC requested CDM perform a five-day treatability test for soil vapor extraction (SVE) and combined air sparging and soil vapor extraction (CASVE) at a portion of the site designated Area 1.

The SVE/CASVE treatability study was performed from October 24 through October 29, 1994. The purpose of the study was to evaluate the potential for use of SVE/CASVE for remediation of organic contaminants found in Area 1. The treatability study was designed such that the wells installed could be used for future remedial activity in Area 1.

# 3.2 Well Installations

Five wells were installed, one air sparge/groundwater recovery well (ASW-1) and four SVE wells (VEW-1 through VEW-4) in Area 1. The four SVE wells were installed in a 25-foot square area with ASW-1 in the center of the four wells as shown on Figure 4-1. The construction logs for each well are attached in Appendix A.

## 3.2.1 Air Sparging Well

The air sparge well was designed to allow the transfer of air to the saturated soil zone. The static depth to water was found to be approximately 8-feet below ground surface (bgs) and a confining layer at approximately 12-feet bgs. The ASW was installed just above the confining layer, with 2-foot nominal length slotted screen set at a depth of 10 to 12 feet bgs.

## 3.2.2 Vapor Extraction Wells

The SVE wells were designed to provide efficient capture of soil vapors from within the unsaturated (vadose) and capillary soil zones. The wells were installed to a total depth of approximately 9-feet bgs with 5 feet of well screen and 5-feet of riser with the screen approximately 1-foot into the water table. This configuration enabled capture of vapor from the unsaturated and capillary zones during SVE and CASVE.

## 3.3 SVE/CASVE Treatability Set-up

Since the SVE/CASVE system was operated at very shallow depths, an impermeable surface cover of 6-mil poly sheeting was installed to prevent short-circuiting of the atmospheric air. The poly sheeting was placed over approximately 2,250 square feet of ground surface. The major equipment was placed, piped and powered to perform injection and extraction operations. The 2-inch PVC piping was connected between the header and the individual wells.

# 3.4 Treatability Study Results

During the treatability-testing phase, monitoring operations were performed to provide the necessary data for system performance test evaluation. The radius of influence for each of the VEWs was found to range between 157 to 242 feet. The SVE operation utilizing all four VEWs yielded much lower vacuum levels than the operation of each individual VEW. The total flow rate for the SVE operation was similar to the maximum flow rates achieved during individual VEW operation. This was due to significant effects of the water table during the SVE operation at vacuum levels over 10 inches of water column (IWC) with all four VEWs in operation. The optimal vacuum level for SVE operation was found to be 10 IWC. A total flow rate of 160 to 180 cubic feet per minute (ACFM) was yielded from all four VEWs and was obtained under this condition.

The CASVE operation was optimized to produce a balance of the air sparging and vapor extraction rates. The vacuum level during CASVE was maintained at 7 to 8 IWC with air flow rates of 130 to 140 ACFM. This lower operating level was required because of groundwater effects caused by the air injection during CASVE. The sparging rate was found to be optimal at approximately 10 ACFM with an injection pressure of 3 to 4 psig. This rate was achieved by slowly increasing the rate to minimize groundwater-mounding effects.

These parameters were utilized for the full-scale unit discussed in the following section.

# Section 4 SVE/CASVE and Groundwater Treatment System

A mobile treatment unit owned by NYSDEC was brought to the Korkay Inc. site for SVE/CASVE and groundwater pump and treatment. The unit is enclosed in an 18-wheel tractor-trailer and equipped with the following:

- Soil Vapor Extraction Blower and two 2,000 pound units of vapor phase carbon
- Groundwater treatment unit equipped with pretreatment tanks for removal of metals, pre-carbon high-pressure filters and 9 high-pressure liquid phase carbon vessels, 3 parallel chains with 3 vessels in series.

An Operation and Maintenance plan was prepared by CDM and submitted to NYSDEC in January 1999. The O&M plan describes the treatment unit in detail. Figure 4-1 shows the treatment unit layout and equipment being utilized for SVE/CASVE and groundwater treatment. Figure 4-1 presents a layout of the treatment trailer and equipment utilized for SVE/CASVE and groundwater treatment.

CDM began setting up the treatment unit in January 1998. Electrical and plumbing subcontractors were required to assist in connections to the treatment system. A new electrical service was required consisting of a new pole onsite, 3-phase service, electrical connection to the treatment trailer and heat tracing of potable water and process lines as needed.

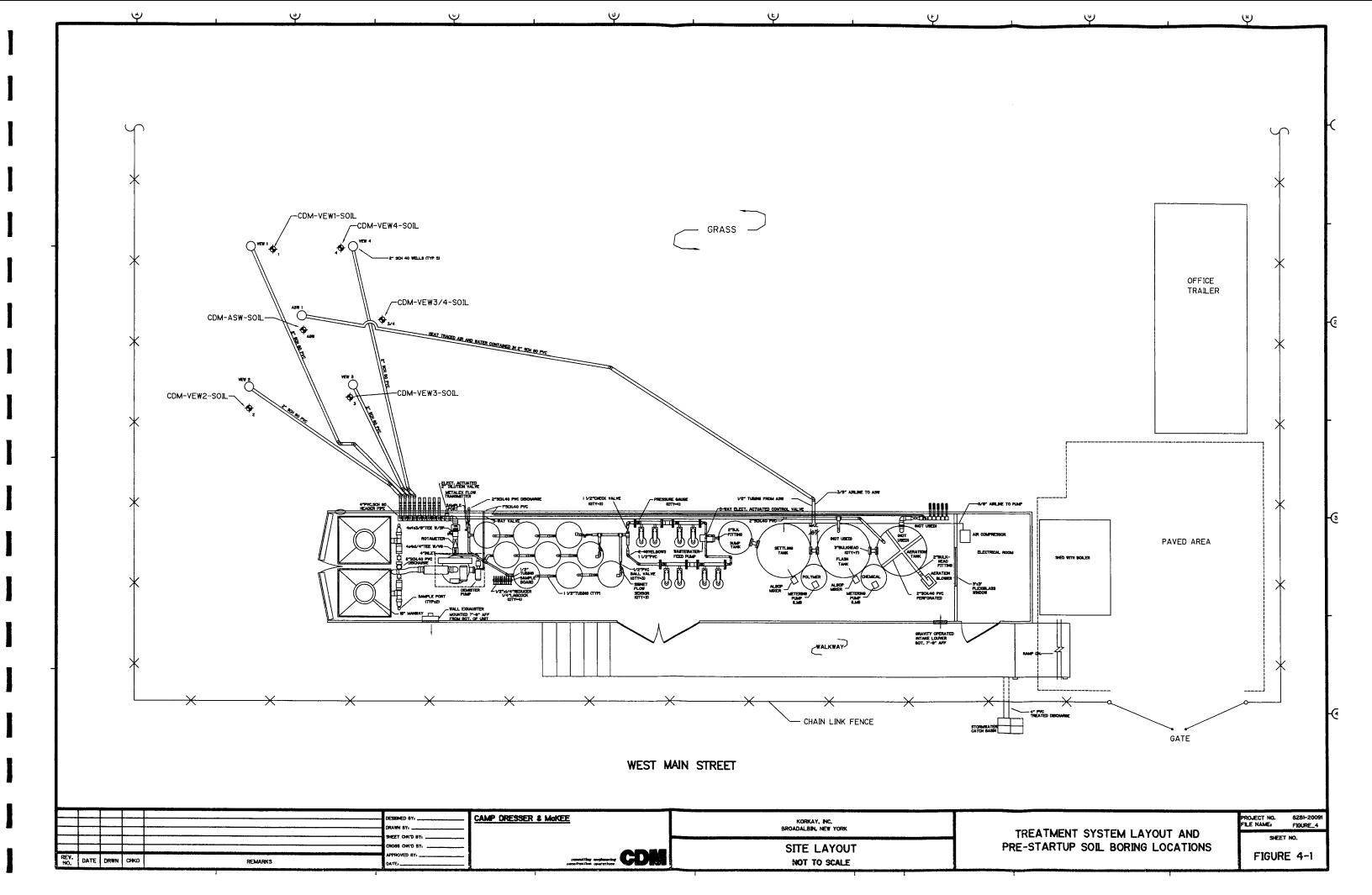
The plumbing subcontractor was required for connection and installation of a potable water supply, converting the heating unit from oil to propane and connection of the heating unit and installation of miscellaneous piping for the treatment unit.

# 4.1 Pre-Startup Conditions of Soil and Groundwater

Prior to connection and start-up of the treatment unit, CDM collected soil and groundwater samples in Area 1 to determine soil and groundwater contaminant concentrations prior to startup.

#### 4.1.1 Soil Conditions

Soil samples were collected on August 28, 1998 from 6 locations near the existing vapor extraction wells (VEWs) and are also shown on Figure 4-1. Samples were collected at 2-foot intervals to a depth of 10-feet below ground surface. Samples were screened in the field with an organic vapor analyzer (OVM), each 2-foot interval composited in the field and submitted for laboratory analysis. Table 4-1 presents a summary of field OVM readings.



The soil sample analytical results indicated elevated levels of soil contamination above NYSDEC standards, criteria and guidance (SCG's) values and the results are presented in Table 4-2 and discussed later in the report. A copy of the analytical data is presented in Appendix A.

#### TABLE 4-1 NYSDEC Korkay Inc. Site - #518014

#### SOIL SCREENING OVM READINGS

SAMPLE ID	DEPTH OF SAMPLE (feet)	OVM READING (ppm)
CDM-VEW1-SOIL1	0-2	5
CDM-VEW1-SOIL2	2-4	12
CDM-VEW1-SOIL3	4-6	27
CDM-VEW1-SOIL4	6-8	113
CDM-VEW1-SOIL5	8-10	226
CDM-VEW2-SOIL1	0-2	ND
CDM-VEW2-SOIL2	2-4	ND
CDM-VEW2-SOIL3	4-6	ND
CDM-VEW2-SOIL4	6-8	ND
CDM-VEW2-SOIL5	8-10	ND
CDM-VEW3-SOIL1	0-2	ND
CDM-VEW3-SOIL2	2-4	ND
CDM-VEW3-SOIL3	4-6	ND
CDM-VEW3-SOIL4	6-8	50
CDM-VEW3-SOIL5	8-10	15
CDM-VEW4-SOIL1	0-2	ND
CDM-VEW4-SOIL2	2-4	2
CDM-VEW4-SOIL3	4-6	27
CDM-VEW4-SOIL4	6-8	250
CDM-VEW4-SOIL5	8-10	283
CDM-ASW-SOIL1	0-2	ND
CDM-ASW-SOIL2	2-4	ND
CDM-ASW-SOIL3	4-6	1
CDM-ASW-SOIL4	6-8	176
CDM-ASW-SOIL5	8-10	176
CDM-VEW3/4-SOIL1	0-2	ND
CDM-VEW3/4-SOIL2	2-4	ND
CDM-VEW3/4-SOIL3	4-6	ND
CDM-VEW3/4-SOIL4	6-8	200
CDM-VEW3/4-SOIL5	8-10	296

#### 4.1.2 Pre-Startup Groundwater Conditions

Pre-startup groundwater samples were collected on September 29, 1998 from the vacuum extraction wells VEW1 and VEW2 and the air sparge well ASW. The other two vacuum wells VEW3 and VEW4 did not contain sufficient groundwater to purge

#### TABLE 4-2

#### NYSDEC KORKAY INC SITE - #518014

#### PRE-START-UP SOIL CONTAMINANT CONCENTRATIONS

SAMPLE CDM-VEW1		SOIL1 (0-2')	SOIL2 (2-4')	SOIL3 (4-6')	SOIL4 (6-8')	SOIL5 (8-10')
Parameter	CRITERIA (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)
VOCs						
TCE	700	60	55	<500	4,600	6,700
1,2 Dichlorethene (total)	7,700	<5	16	1,500	3,200	5,500
Xylenes	1,200	<5	11	33,000	55,000	52,000
Toluene	1,500	<5	<5	590	2,100	6,400
Ethylbenzene	5,500	<5	<5	2,400	7,200	14,000
1,2-Dichlorobenzene	7.7-EE6	<5	<5	<500	630	1,700
o-Dichlorobenzene	7.7-EE6	<5	<5	<500	<500	1,700
SAMPLE CDM-VEW2	[	SOIL1 (0-2')	SOIL2 (2-4')	SOIL3 (4-6')	SOIL4 (6-8')	SOIL5 (8-10'
Parameter		conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)
VOCs						
1,2 Dichlorethene (total)	7.7-EE6	<5	<5	<5	150	710
Xylenes	1,200	<5	<5	<5	150	8,600
Ethylbenzene	5,500	<5	<5	<5	120	2,900
SAMPLE CDM-VEW3		SOIL1 (0-2')	SOIL2 (2-4')	SOIL3 (4-6')	SOIL4 (6-8')	SOIL5 (8-10'
Parameter		conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)
VOCs				<u>/_</u> _/_		
1,2-Dichlorobenzene	7.7-EE6	<5	<5	<5	5	500
Xylenes	1,200	<5	<5	<5	51	17,000
Ethylbenzene	5,500	<5	<5	<5	24	<500
o-Dichlorobenzene	7.7-EE6	<5	<5	<5	5	500
SAMPLE CDM-VEW4		SOIL1 (0-2')	SOIL2 (2-4')	SOIL3 (4-6')	SOIL4 (6-8')	SOIL5 (8-10'
Parameter		conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)
VOCs				; ·;		
TCE	700	NS	84	<500	2,300	<500
Xylenes	1,200	NS	<50	9,400	120,000	33,000
Toluene	1,500	NS	<50	<500	12,000	3,500
Ethylbenzene	5,500	NS	<50	720	19,000	<500
1,2-Dichlorobenzene	7.7-EE6	NS	<50	<500	5,500	1,800
o-Dichlorobenzene	7.7-EE6	NS	<50	<500	5,500	7,800
SAMPLE CDM-ASW		SOIL1 (0-2')	SOIL2 (2-4')	SOIL3 (4-6')	SOIL4 (6-8')	SOIL5 (8-10'
Parameter		conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)
100-						
VOCs						
1,2 Dichlorethene (total)	7.7-EE6	NS	NS	<25	<100	1,800
	7.7-EE6 1,200	NS NS	NS NS	<25 <25	<100 640	1,800 7,700
1,2 Dichlorethene (total)						
1,2 Dichlorethene (total) Xylenes Toluene	1,200	NS	NS	<25	640	7,700
1,2 Dichlorethene (total) Xylenes	1,200 1,500	NS NS	NS NS	<25 <25	640 <100	7,700 500 990
1,2 Dichlorethene (total) Xylenes Toluene Ethylbenzene	1,200 1,500 5,500	NS NS NS	NS NS NS	<25 <25 <25	640 <100 320	7,700 500 990
1,2 Dichlorethene (total) Xylenes Toluene Ethylbenzene SAMPLE CDM-VEW3/4	1,200 1,500 5,500	NS NS NS SOIL1 (0-2')	NS NS NS SOIL2 (2-4')	<25 <25 <25 SOIL3 (4-6')	640 <100 320 SOIL4 (6-8')	7,700 500 990 SOIL5 (8-10'
1,2 Dichlorethene (total) Xylenes Toluene Ethylbenzene SAMPLE CDM-VEW3/4 Parameter VOCs	1,200 1,500 5,500	NS NS NS SOIL1 (0-2')	NS NS NS SOIL2 (2-4')	<25 <25 <25 SOIL3 (4-6')	640 <100 320 SOIL4 (6-8')	7,700 500 990 SOIL5 (8-10'
1,2 Dichlorethene (total) Xylenes Toluene Ethylbenzene SAMPLE CDM-VEW3/4 Parameter	1,200 1,500 5,500	NS NS SOIL1 (0-2') conc. (ppb)	NS NS SOIL2 (2-4') conc. (ppb)	<25 <25 <25 SOIL3 (4-6') conc. (ppb)	640 <100 320 SOIL4 (6-8') conc. (ppb)	7,700 500 990 SOIL5 (8-10' conc. (ppb)

NS = No Sample collected at that depth due to No VOC detected on OVM

or obtain a sample. Three groundwater samples were submitted to the laboratory for analysis and indicated groundwater contamination above NYSDEC groundwater criteria. Table 4-3 presents the results of the groundwater sampling and the results are discussed later in the report. A copy of the laboratory report is attached in Appendix B.

## 4.2 Vapor Extraction System

CDM began connecting the four VEW wells to four of the SVE manifolds at the exterior of the treatment trailer. The manifolds are numbered 1 through 8 at the interior of the trailer. However, during connection of the VEW wells, VEW1 and VEW2 were switched and are noted as such in the trailer. New quick-connect fittings were attached to the outside of the trailer for easy removal of the SVE piping, if necessary. Schedule 80 2-inch PVC piping was used to connect the VEW wells to the exterior trailer connections. All PVC slip joints from the trailer connection to the VEW wells were solvent welded. At the well head, the slip coupling was attached using Teflon tape for a better seal and then wrapped with duct tape. Removable thread caps were also installed at the well head for access to each SVE well to collect groundwater level measurements and samples. Small drain plugs were installed at the exterior of the trailer to allow for draining condensate and groundwater that may collect in the lines. The drains were installed at the low point prior to entering the treatment trailer.

#### 4.2.1 SVE Unit Start-up and Operation

Operation of the SVE began on November 6, 1998. Prior to startup static OVM readings were taken at the four wellheads and were as follows:

- VEW-1 241 PPM
- VEW-2 100 PPM
- VEW-3 44 PPM
- VEW-4 23 PPM

Following start-up, the SVE well vacuum pressures (in inches of water column, IWC) measured at the wellhead sample ports were adjusted to read the following vacuum pressures:

- VEW-1 10.5 IWC
- VEW-2 9.5 IWC
- VEW-3 10.0 IWC
- VEW-4 12.0 IWC

These vacuum levels, established during the pilot study, were achieved by only slightly opening the ball valve for each well inside the trailer. The pilot study indicated that optimum operating conditions of a combined vacuum for all 4 wells of 40 to 45 IWC or approximately 10 to 12 IWC per well. Higher vacuum levels would begin to introduce groundwater into the air stream and create a less efficient

# TABLE 4-3KORKAY INC. SITENYSDEC SITE NO. 518014

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#### GROUNDWATER SAMPLING RESULTS

	Concentra	ition Recorded (ug/L)	Concentration Recorded on 9/24/99					
Compound	VEW1	VEW2	ASW1	VEW1	VEW2	(ug/L) VEW3	VEW4	ASW
Total 1,2 Dichloroethene	1,000	2,600	180	590	25	<1	24	<10
1,1,1-Trichloroethane	120	<25	<20	<100	<1	<1	<1	<10
Trichloroethylene	4,700	75	<20	170	8	<1	6	15
Tetrachloroethylene	<20	<25	<20	<100	<1	2	2	<10
Toluene	<20	75	220	<100	<1	<1	<1	<10
Ethylbenzene	530	150	790	<100	<1	1	2	85
Chlorobenzene	<20	<25	<20	<100	1	2	1	<10
1,4-Dichlorobenzene	<20	<25	<20	<100	1	<1	<1	<10
1,2-Dichlorobenzene	53	<25	20	<100	4	3	18	<10
Xylenes, Total	1,600	530	2,800	340	<1	10	60	400

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operating condition. The OVM reading of the combined influent for all four wells, plus minor dilutions, was 282 ppm, including some minor dilution.

The following OVM readings for each individual well were taken at the sample ports located inside the treatment trailer:

- VEW-1 198 ppm
- VEW-2 83 ppm
- VEW-3 41 ppm
- VEW-4 20 ppm

In May 1999, 2,200 square feet of 6-mil poly sheeting was installed in Area 1 as ground cover to prevent short-circuiting of the SVE system

#### 4.2.2 SVE Treatment System Monitoring

The SVE treatment was monitored weekly and sampled monthly when the system was operating. Minor adjustments to vacuum levels were made to maintain the optimum levels achieved during the pilot study. Some groundwater was being introduced into the vapor stream during periods of heavy rain, primarily spring and fall. The recorded data for the SVE system is presented in Table 4-4.

Air samples were collected from the SVE influent and effluent and the groundwater treatment system influent and effluent. However, the sampling method being utilized was not providing a good indication of contaminant levels. A new sample method was initiated utilizing Tedlar bags that provided better sample results. The analytical results are discussed in Section 5. OVM readings were recorded at the sample ports inside the treatment trailer and are also shown in Table 4-4 and discussed in Section 5. A copy of air sample laboratory data is attached in Appendix C.

### 4.3 Groundwater Pumping/Treatment and Air Sparge

#### Groundwater Pumping/Treatment

During the initial phase of the SVE operation, the air sparge well, ASW-1 was used for groundwater pumping primarily to depress the groundwater table and increase the vadose zone for SVE operation. A small pump was purchased to pump approximately 1 gallon per minute (gpm). An air compressor that would later be used for air sparging operated the pump.

The Phase I and II RI/FS determined that groundwater was contaminated above NYSDEC SCG's and would require treatment prior to discharge. The water was pumped to the waste holding tank in the treatment trailer and then, using the waste pump, pumped through four mesh filters in series for solids removal and then through a series of three liquid phase carbon high pressure vessels prior to discharge

#### TABLE 4-4

#### KORKAY INC. SITE NYSDEC SITE NO. 518014

#### SOIL VAPOR EXTRACTION SYSTEM MONITORING DATA

	ļ									System		xtraction Pump		
	DATE	VEW1	ding at Trai	VEW3	VEW4	VEW1	VEW2	Vell (in IWC	) VEW4	Temp Deg F		ches of Hg		er Pressures (psi)
			100*		23*						Before	After	Unit A	Unit B
	1/6/98	241*		44*		0	0	0	0	0	0	0	0	0
	1/6/98	198	83	41	20	10.5	9.5	8	12	120	3.75	4	1.5	0
	1/13/98	178	80	42	20	9.5	10.5	8	12	130	3.75	4	1.5	0
	1/16/99	172	72	39	19	10	8	9	10	150	3.75	4	1.5	0
	1/23/98	150	61	38	18	10	9.5	8.5	9	150	3.75	4	1.5	0
	2/9/98	152	12.5	34	75	10	9.5	8	9.5	130	3.75	4	1.5	0
	/22/99						······································			r/Frozen Line				
	/17/99									Motor Failure				
	/12/99					**				Motor Failure			·	r
	/16/99		7	2	3	**	12	13	15	140	4.25	5.00	1.5	0
	/19/99	**	2	0		**	13	15 12	15	130	5.00	5.75	2	0
1	/31/99		0		0		15	1	13	140	5.00	5.75	2	0
	4/9/99	0	0	0	0	10	12	12	13	130	5.25	6.00	2	0
	/14/99	0	0	0	0	11	11	10	12	140	5.25	6.00	2	0
	/25/99		·							oing to Air Spa				
	/16/99	42	3	1.7	10	9	12	10	13	160	5.25	6.00	2	0
	/29/99	52	0	0	5	10	10	8.5	15	190	5.25	6.00	2	0
	/14/99	66	2	13	25	11	10	10	11.5	170	5.50	6.25	2	0
	8/6/99	82	3.7	1.7	21	11	10	11	10.5	160	5.50	6.25	2	0
	/27/99	97	6	2	38	8	10	10	9.5	190	5.75	6.50	2.5	0
	/16/99	148	9	4	72	9.5	8	9.5	9	160	5.75	6.50	2.5	0
	0/1/99	18.5	0	0	4.8	8.5	12	11	13	160	6.00	6.50	2.5	0
	0/13/99	29	1.5	8.4	8	7	11.5	11	12	150	6.00	6.50	2.5	0
	1/4/99	20.7	0	0	4.5	8.5	11	10	10	130	6.25	6.75	2.5	0
-	1/10/99	36	0	0	6.9	11	11	10	10	130	6.25	7.00	2.5	0
	1/30/99	22.1	0	0	8	12	11.5	11	9.5	130	6.75	7.00	2.5	0
·	1/4/00					13	14	11	8	130	6.75	7.00	2.5	0
1	1/5/00	3.7	0	0	0	10	11	11	10	130	6.75	7.25	2.5	0

NOTES

Denotes static OVM readings at well heads prior to startup
 Denotes well screen plugged/no vacuum or OVM readings

System Downtime due to electrical problems

Section 4 Soil Vapor Extraction and Groundwater Treatment

to a storm water catch basin on West Main Street. A SPDES permit was required and obtained from NYSDEC. The permit required discharge monitoring and the sample results are presented in Table 4-5 and discussed in Section 5.

Therefore, in addition to lowering the groundwater table, groundwater was also being remediated and accelerating the remediation time. Groundwater level measurements in the VEW wells were recorded monthly and are presented in Table 4-6. During groundwater pump and treatment, water levels could not be measured in ASW-1 due to the pump in the well.

#### Air Sparging

On May 25, 1999 the groundwater pump was shutdown and removed from the well. A new PVC well cap with air line connection was place on the well. The connection also had a pressure gauge. The top of the well PVC was wrapped with Teflon tape prior to placing the cap to provide a better seal.

The SVE system was turned on and the air pressure applied to the ASW-1 well, starting at 1 pound per square inch, psig. The air pressure was gradually increased to 3 psig to prevent groundwater mounding in the VEW wells. The treatment unit continues to operate in the CASVE until January 12, 2000 when extreme cold temperatures caused SVE lines to freeze.

# **4.4 Operating Problems**

Since the startup of the treatment unit in November 1998, several operating problems have been encountered over the past 18 months. They are as follows:

- The most significant operating problem has been the winter time operation between December and March. The cold temperatures have caused system shutdowns and frozen SVE lines even with heat trace tape. The system is usually shutdown during this time period and restarted if weather permits at anytime.
- Due to the condition the treatment system was in when delivered to the site, certain air and water flow gauges, pressure gauges and other miscellaneous equipment do not operate properly. Some system operating problems were corrected by the electrical subcontractor to allow for operation of the essential equipment. The gauges were not essential for operation at Korkay and were not replaced due to cost.
- The largest equipment failure since startup was the SVE blower motor in February 1999. Replacement of this motor took approximately 1 month.
- The compressor used for operating the groundwater pump and providing air CASVE also failed in November 1999 and some repairs were completed under warrantee. The air sparge was down for approximately 1 month.

#### TABLE 4-5

#### NYSDEC KORKAY INC SITE - #518014

#### MONTHLY GROUNDWATER TREATMENT UNIT DISCHARGE MONITORING RESULTS

SAMPLE	NYSDEC	CDM-ASW-01	CDM-ASW-02	CDM-ASW-03	CDM-ASW-04
Parameter	CRITERIA (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)	conc. (ppb)
DATE		9/29/98	12/9/98	2/17/99	3/31/99
VOCs					
TCE	5	<20	13	<50	<50
1,2 Dichlorethene (total)	5	180	2,600	520	490
Xylenes	5	2,800	2,200	2,200	2,000
Toluene	5	220	130	130	100
Ethylbenzene	5	790	400	360	320
1,2-Dichlorobenzene	4.7	20	58	<50	<50
1,1,1-Trichloroethane	5	<20	<1	<50	<50
Tetrachloroethylene	5	<20	9	<50	<50
Benzene	0.7	<10	3	<25	<25
Chloroform	7	<20	450	<50	<50

All Discharge Samples CDM-CARBEFF-01 through 04 were below the detectable limit of 1ppb (Benzene 0.5 ppb)

#### TABLE 4-6

#### KORKAY INC. SITE NYSDEC SITE NO. 518014

#### GROUNDWATER SYSTEM MONITORING

		epth to Groundw	Flow Rate	Total Flow		
DATE	VEW1	VEW2	VEW3	VEW4	(gpm)	Approximated (gallons)
9/29/98	9.88	9.86	10.39	10.55	0.00	static
11/6/98	9.80	9.75	10.40	10.50	0.50	startup
12/9/98	9.95	9.97	10.44(dry)	10.65(dry)	0.50	23,000
1/22/99	10.20	10.40(dry)	10.44(dry)	10.65(dry)	0.50	34,500*
2/17/99	10.15	10.35	10.44(dry)	10.65(dry)	0.50	40,000*
3/19/99	9.87	9.80	10.15	10.31	0.50	63,000
4/14/99	8.18	8.07	8.70	8.78		90,000
6/16/99	9.20	9.07	9.90	9.54	0.00	Switch to Air Sparge
7/14/99	9.51	9.29	9.92	9.86	0.00	
8/6/99	9.81	9.29	9.91	9.95	0.00	
11/4/99		Water Level Pro	be Not Working	••••••••••••••••••••••••••••••••••••••		

#### NOTES

• Denotes System down part of the time due to frozen air line to pump

Dry indicates groundwater level at or below bottom of well

Flow rate and total flow estimated

Groundwater level measurements taken with pump operating and SVE system off

Groundwater levels in ASW well could not be measured due to pump in well

• The blower is significantly oversized for this application and had frequent shutdowns. The telemetry system for treatment unit would not operate correctly (false alarms) because many of the treatment systems were not being utilized. Therefore, there was no way of knowing when the treatment unit was down accept for site visits.

# Section 5 Sample Results, Conclusion and Recommendations

# 5.1 Sample Results

The following sections present the sample results for the SVE, groundwater treatment and CASVE systems.

#### 5.1.1 Groundwater Sample Results

The groundwater samples were collected from the VEW and ASW wells in September 1998 prior to startup and a second set was collected in September 1999. The results were presented in Table 4-3 and indicate a significant decrease in contaminant concentrations.

All contaminant levels detected in VEW-1, VEW-2 and ASW-1 in the September 1998 samples decreased substantially during the one-year period. The reduction in total Volatile organic compounds (VOCs) for the three wells over a one-year period was as follows:

- VEW-1: 8,003 to 1,100 ppb
- VEW-2: 3,430 to 39 ppb
- ASW-1: 4,010 to 500 ppb

This indicates that the SVE in combination with the groundwater pump and treatment and air sparging have worked very successfully to reduce the groundwater contamination at the site. In addition, the slug of mineral spirits detected in VEW-1 in January 1999, is no longer present.

#### 5.1.2 Groundwater Treatment Unit Sample Results

Samples were collected from the treatment unit influent (ASW-1) and effluent during the period of groundwater pumping. The treated discharge was below detectable levels and permit limits during the groundwater treatment phase.

The influent from ASW-1 showed a reduction in contaminant concentrations in the groundwater during the groundwater pumping and SVE operation. The total VOC's went from a maximum of 5,863 ppb in December 1998 to 2,910 ppb in March 1999. The ASW-1 groundwater contaminant levels decreased significantly during air sparging discussed in the following sections.

#### 5.1.3 SVE Monitoring Results

CDM continually monitored the SVE system during operation. The VEW vacuum pressure and contaminant levels were monitored during periodic site visits.

Other system operating parameters were monitored during operation including combined influent, treated discharge, and system operating temperature and pressure.

In the initial phase of system operation, the total VOC levels continually decreased between November 1998 and April 1999. This was during the period of groundwater pump and treatment and SVE.

In May 1999, the system was switched to CASVE. Between May 1999 and September 1999 the total VOC levels continued to rise. In September 1999, the levels decreased significantly and continued that trend until the winter shutdown in January 2000. Well VEW-1 is the only well that had detectable total VOC concentrations at 3.5 ppm. The remaining 3 wells were below detectable levels.

#### 5.1.4 SVE Treatment Discharge Results

The SVE treatment system discharge was monitored periodically during site visits to determine when breakthrough was achieved. The system was monitored prior to entering the carbon (the combined influent), at the discharge of the Unit A and discharge of Unit B. The treatment unit was operating with Unit A as the primary treatment and Unit B as the backup. The OVM readings on both discharges were below detectable levels. Breakthrough was achieved on Unit A in November 1999. The system was shutdown and the carbon was changed in Unit A only. The system is now operating with Unit B as the primary unit and Unit A as the backup.

## **5.2 Conclusions and Recommendations**

The following sections present CDM's conclusions for the treatment unit operation over the past 18 months and recommendation for system operation in the coming months.

### 5.2.1 Conclusions

CDM concludes that the treatment unit SVE, groundwater pump and treat and CASVE at the Korkay site has resulted in a significant reduction in groundwater and soil contaminants in the past year. The contaminant levels in the groundwater have been reduced to below detectable levels in 3 of 4 VEW wells and the ASW well.

The soil vapor levels have also decreased substantially in the past year of operation. The SVE contaminant concentrations decreased from the initial startup level of 282 to non-detectable levels in April 1999. The system was converted from a SVE/groundwater pump and treat system to CASVE in May 1999. The SVE levels continued to rise in all four wells until September 1999 and then began decreasing to non-detectable levels in 3 of the 4 VEW wells prior to winter shutdown in January 2000.

The CASVE system was restarted on March 2, 2000 and initial VOC levels were nondetect in all four VEW wells. The levels in VEW 2, VEW 3 and VEW 4 remain at nondetectable levels and VEW 1 has increased to 12 ppm, using the OVM. Confirmatory air samples were collected on March 24, 2000. Reviewing Table 4-4 the total VOC levels for VEW-1 and VEW-4 shows a 3-month trend from the maximum contaminant levels during CASVE in September 1999 to near non-detect in January 2000. This trend is also similar to contaminant reduction during the SVE and groundwater pumping phase of remediation between November 1998 and March 1999.

#### 5.2.2 Recommendations

The CASVE system has been restarted after the 2-month winter shutdown and the initial VOC levels in all for SVE wells are non-detect. The next month of operation will give a definitive indication as to the remaining operating time of the treatment unit at Korkay Inc. CDM has resampled the groundwater in the 4 SVE wells and ASW well and collected air samples for the SVE wells.

CDM recommends the following:

- Continue operation in CASVE mode and continue weekly monitoring of the influent for each SVE well.
- Collect confirmatory SVE air samples from wells with detectable levels in May and submit for laboratory analysis.
- Collect groundwater samples from the four SVE wells and the ASW wells in early May 2000 to confirm the March 2000 sample results.
- If the contaminant concentrations in the vapor streams have been reduced to nondetectable levels and the groundwater contaminant concentrations have also decreased to below or near NYSDEC SCGs, conduct post remediation soil sampling in close proximity to the pre-remediation soil sample locations. The soil sampling will be conducted in early May 2000 depending on the air and water sample results for March 2000 and May 2000.
- CDM will prepare 2 sample summaries for the March 2000 and May 2000 air and groundwater sample events. The sample summaries will be amended to this report and present an estimated time to complete cleanup of the site.
- CDM will also prepare a summary of the post-remediation soil sample results. These soil results will provide a trend line of contamination data and estimation of when cleanup levels (NYSDEC SCGS and ROD) will be met.
- Review of the data collected to date and the progress of the treatment, it may be possible to meet cleanup goals presented in NYSDEC SCG's and the ROD, by June 2000.

## 5.3 Engineer's Certification

#### KORKAY, INC. SITE

#### REMEDIAL CONSTRUCTION CERTIFICATION

Remedial Construction was completed in substantial conformance with the Contract Documents entitled "Work Assignment D002925-26 Approved Work Plan" dated June 18, 1998 and Amendment No. 1 dated October 18, 1998. Design parameters were outlined in Final RI/FS Report date January 1995 and Operation and Maintenance Plan dated January 1999.



Signature:

Richard A. Molongoski, P.E. Associate

Date:

5/8/00

WELL LOG



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WELL CONSTRUCTION SUMMARY

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Project: Korkey	Client: _/	4SDEC	_ Hell No: <u>VEW-1</u>
	DRILLING SUMMARY Drilling Co:B Drill Rig Make/Model:_ Borehole Diameters: Bits/Depths:4 1/4	Services CME 75 8" Hullow Herr Auger by	Drillers: <u>J. Lomm</u> Drilling Fluid: <u>None</u>
	Screen Material: <u></u> Slot Size: <u>/o slot</u> Filter Material: <u>No</u> Seals Material:	$\frac{40 \ PVC}{Setting:}$ $\frac{10 \ PVC}{Setting:}$ $\frac{10 \ PVC}{Setting:}$ $\frac{10 \ PVC}{Setting:}$ $\frac{10 \ PVC}{Setting:}$	$\frac{\partial -inch}{\partial - inch}  Length: 5.4^{-1}$ $\frac{\partial - inch}{\partial - inch}  Length: 5.0^{-1}$ $\frac{4.3^{-} + 6.9.3^{-} + 5.9}{2.8^{-} + 6.10^{-} + 5.9}$ $\frac{NA}{0 + 6.2.8^{-} + 5.9}$ $\frac{NA}{A}$
4.3'	TIME LOG Drilling:	Started /0/6/94 /0/6/94 /0/6/94 //A	Completed 
<u>9.3'</u>	WELL DEVELOPMENT Method: Static Depth to Wate Pumping Depth to Wate Pumping Rate: Volume Pumped:	er: <u>NA</u> .	( conter column = 1.53°) Specific Capacity: <u>NA</u>
11Y-4			

	nental e	ngineers, scie	otists			В	URING NUMBER:	VEW-1
		gement consi						Page 1 of _/
Log of	Borin	ng						
Project	t <u>K</u>	orkay		Lo		Broadalsin, NY Job. 1		
	-	10/6/94				illing Co. <u>SJB Servi</u>		<u></u>
						thod Used Hollow Sten A.		
Inspect	tor	R Chene		irganic V	apor Inst	ruments Used $HM_{g}$	Water Table	e Depth
Depth (feet)	Samp. No.	Blows per 6" /40 lbs.	Sample Interval		Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
		24	+					
	1	4 4	0-2-	2.0	70	SANS, trace Sitt.	4	
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6 -						Black (staned) - SANS,		VEW-1-7.5
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WELL CONSTRUCTION SUMMARY

	Project: <u>Norkey</u>	Client: <u>NYSDEC</u>		_Well No:/	EW-2
r					
<u>1.0</u> -		DRILLING SUMMARY			
		Drilling Co: <u></u>		Drillers:	Low
		Drill Rig Make/Model: CMC	75		
-		Borehole Diameters: 8"		Drilling Flui	d: None
-		Bits/Depths: 4 1/4 Hollow	Ster Auger		
-		Total Depth: 9.4' 5.5.		Depth to Wate	r: <u>-8-6.</u>
		Supervisory Geologist: <u> </u>	Chenenko		
-	Δ				
+		WELL DESIGN			
_	F A	_			
4	P	Casing Material: <u>LA 40 PVC</u>	Diameter:	2-inch	Length: 5.4 <sup>-</sup>
4	4	Screen Material: <u>Sch 40 PV</u>			
4	ν	Slot Size: 10 slot			
4		Filter Material: No. 0 Mocie	Setting:	3.0 % 10-	S. c.
]		Seals Material: NA	Setting:	NA	
3.0-		Grout: Type I Cement / bento	teSetting:	0 10 3.0 5	· <u>s</u> ·
4.4 <sup>-</sup>	0 0 0	Surface Casing Material: N	<pre>1 Setting:</pre>	NA	
4.ý -		•			
		TIME LOG S	arted	•	Completed
		Drilling:/0/s	(94	10/	5/94
4		Installation: 10/s	-	10/5	
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4		Pumping Depth to Water:			
7.4'	°•=.	Pumping Rate:		ecific Capacity:	1/ A
<i>o</i> ′ –		Volume Pumped: NA		-	
]	<u>`</u>			· · · · · · · · · · ·	
4]		• <u>—•••,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		··· <del>··································</del>	
NY-4					

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Depth (feet)	Samp. No.	Blows per 6" /40 lbs.	Sample Interval		Org. Vap - PPM	Sample Description	Strata <u>Change</u>	Remarks (Time of D	
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2 -	7	4 4 5 5	2-4	2.0.	0.2	0.4 Brown m-c' SAND trace gravel 0.4 Black gravel and Coarse Sand Fill			
4 —					1	Coarse Sand Fill (Strangd?) 0.7' Black c Sandandgravel -			
-	3	77	4-6	D.U. I.S	1	fill 0.8' Tan and orange met SANA			
6 -	4	65	6-8-	2.0.	0.2-5	0.5 Tan and orange mtc SAUS 0.4 Gray & SAUS, these S.H. Black streaks			
		54	6-8	T.6°		Block streaks O.S' Gray - SAND O.J' Gray f SAND tr. Sill:		VEW-2-7. TCL VO	
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WELL CONSTRUCTION SUMMARY

	Project: Korkey	Client: <u>NYSAEC</u>	Well No: VEW-3
.4		DRILLING SUMMARY	
<u>3.0</u>		Bits/Depths: $4^{i}4^{ii}$ $Hullow$ $5c.$ $Av_{2}$ Total Depth: $q.o$ $5.s.$ Supervisory Geologist: $R.$ $Chenenko$ WELL DESIGN         Casing Material: $5c.$ $4o$ $PVC$ Diamete         Screen Material: $5c.$ $4o$ $PVC$ Diamete         Slot Size: $1o$ $slot$ Setting         Filter Material: $Nc.$ $O$ $Setting$ Grout: $T_{ype}T$ $Cenent/$ $Setting$ Surface Casing Material: $NA$ Setting         TIME LOG       Started       Drilling: $1o/4/94$ Installation: $1o/4/94$ $NA$ WELL DEVELOPMENT       Method: $MA$ Method: $MA$ $Static Depth to Water:       9.4i         Towing Depth to Water:       NA NA $	Drilling Fluid: <u>Nonc</u> Depth to Water: $\pm g^{-} \delta_{.g.}$ , $r: \supseteq -inch$ Length: $5.4^{-}$ $r: \supseteq -inch$ Length: $5.0^{-}$ $g. fo fo g.o^{-} \delta_{.g.}$ $g. fo fo g.o^{-} \delta_{.g.}$ $g. fo fo g.o^{-} \delta_{.g.}$ r: NA Completed <u>Io/4/94</u> <u>NA</u>
NY-4		////	

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plann	ners & man	engineers, scie agement cons	uitants					Page 1 of
Log	of Bori	ng						
Proj	ect_Ka	rkay		Lo		Broadalsin NY Job. No_		
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		10'				thod Used Hollow Sten A.		
Insp	ector_/	Chene.	<u>ko</u>	)rganic V	apor Inst	ruments Used <u>HN4</u> Wa	ter Table	Depth <u>đ</u>
Depth (feet		Blows per 6" /40 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Ch <u>ange</u>	Remarks (Time of Da
		23						
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	12	46	2-4	1.6.	0	0.4' m-c SAND, Jack gray - and orange streaks, trace silt.		VEW-3-2.4
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	] ]					ton and orange from		-
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	3	4 9	4-6	2.01	O	Trace gravel.		
						0.7 ton fim SAND		
	]					:		
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WELL CONSTRUCTION SUMMARY

	Project: Korkay	Client:	NYSDEC	Well No: <u>VEW-4</u>
■ <u>1.6</u>		DRILLING SUMMARY		
		Drill Rig Make/Model Borehole Diameters: Bits/Depths:4 //4 Total Depth: Supervisory Geologis WELL DESIGN	8" "Hullow Ster Auge 8.8" S.g. t: R. Chenerko	Drilling Fluid: None
<u>, 8.</u>		Slot Size: <u>10 sla</u> Filter Material: <u>No</u> Seals Material:	$\frac{1}{\sqrt{A}}$ Setting $\frac{\sqrt{A}}{\sqrt{A}}$ Setting $\frac{\sqrt{A}}{\sqrt{A}}$ Setting Setting	$Pr: \frac{2}{3.6} + 0  \text{Length: } 5.0^{-1}$ $P: \frac{3.6}{70} + 0  16^{-5} \cdot 5.5$ $P: \frac{16}{7} + 0  16^{-5} \cdot 5.5$ $P: \frac{16}{7} + 0  2.6^{-5} \cdot 5.5$ $P: \frac{16}{7} + 0  2.6^{-5} \cdot 5.5$ $P: \frac{16}{7} + 0  2.6^{-5} \cdot 5.5$
		TIME LOG Drilling: Installation: Development:	Started 10/4/94 10/4/94 10/4/94	Сотрieted 
<u>8.8</u> <u>16</u>		Pumping Depth to W	A ter: <u>9.58' Toc</u> ater: <u>NA</u> <u>NA</u> NA	(water column = 0.82") Specific Capacity: <u>NA</u>
114-4				

CDM
wnvironmental engineers, scientists,
planners & management consultants

BORING	N MRFR	VEW-4,	ISR

Page 1 of /

Log of Boring

Depth	Samp.	Blows per 6"	Sample	Adv./	Org. Vap.	Samla Decentetto-	Strata	Remarks
(feet)	No.	Per 6 140 lbs.			- PPM	Sample Description	Change	(Time of D
	1	52 23	0-2-	2.0 0.3	0	Brown on SAND, roots. Organie		
2 –	2	34	<i>j</i> -4'	n.0 1.1	2	Brown for SAND, trace gravel		53-2 3-4 TCL/TA
4	3	3 23 23	4-6	1.0°	15	0.9' Brown f-m SANA, tr. silt, gravel 0.4' Tan and uranje m-c SAND (lower HNA)		5R-3 4- TCL/TA
6	4	72 11	6-8-	2.0-	200	Black (staned) m-f SAVS.		Doplicates SB-2 6- SB-2 20- TCL/1
ار ار ار ار ار ار ار	5	1 1 2 1	8-10	2.0-	200	0.3 Black mic SAND 0.6 Gray & SAND / He Silt 0.3 Black from SANG 0.1 Gray from SANG		
/o	6	4 4 4 4	10-12	7.0	40 - tup 5- 50+tum	0.7 Gray f-m SANA 0.8 Gray-Slack (strined) m SAND odor, Let		
	7	/ 2	12-14	2.0*		Gray of SAND, little silt.		58-7 17 TCL/T

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environmental engineers, scientists, planners & management consultants

WELL CONSTRUCTION SUMMARY

i	Project: Korkoy	Client: <u>NYSDEC</u>	Well No: <u>ASW-1</u>
1.4*		DRILLING SUMMARY	
<u>8.3</u> <u>10.1</u>		Drill Rig Make/Model: $CME 75$ Borehole Diameters: $8'''$ Bits/Depths: $4''_4$ Hollow Store Total Depth: $12.1$ S.s. Supervisory Geologist: R. Chene WELL DESIGN Casing Material: <u>Sch 40 PVC</u> Screen Material: <u>Sch 40 PVC</u> Slot Size: <u>10 Slot</u> Filter Material: <u>MA</u> Grout: <u>TypeI Cement / Bentonite</u>	Drilling Fluid: None $A_{2,2,2}$ Depth to Water: $\delta^{2} \leq \xi_{2,2}$
-		Drilling: $10/s/94$ Installation: $10/s/94$ Development: $1/A$	10/5/94 10/5/94 NA
- بر الم		WELL DEVELOPMENT Method:	
117-4			

PRE-STARTUP SOIL SAMPLING DATA



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LABORATORY REPORT

for

Camp Dresser & McKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Attention: John Blaum

Report date: 09/14/98 Number of samples analyzed: 25 AES Project ID: 980828AC Invoice #: 191294

ELAP ID#: 10709

AIHA ID#: 7866 Page 1

Albany, NY + Buffalo, NY + Rochester, NY + Saratoga Springs, NY + Syracuse, NY + Basking Ridge, NJ + Hartford, CT



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW			te Sample	d: 08 received: 08	/28/98
AES sample #: 980828AC01	Samples taken by: MATRIX: Soil		Loc		y, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-8010	<5	ug/kg	SW-D	08/31/98
Bromomethane	EPA-2010	<5	ug/kg	BW-D	08/31/98
Dichlorodifluoromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Vinyl Chloride	EPA-8010	<5	ug/kg	BW-D	08/31/98
Chloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Methylene Chloride	EFA-8010	<5	ug/kg	BW-D	08/31/98
Trichloroflouromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1 1-Dichloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,1-Dichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Total 1,2 Dichloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98
Chloroform	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,2-Dichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,1,1-Trichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Carbon Tetrachloride	EPA-8010	<5	ug/kg	BW-D	08/31/98
Bromo dichloromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,2-Dichloropropane	EPA-8010	<5	ug/kg	BW-D	08/31/98
trans-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BW-D	08/31/98
Trichloroethene	EPA-3010	<5	ug/kg	BW-D	08/31/98
Dibromochloromethane	EPA-5010	<5	ug/kg	BW-D	08/31/98
1,1,2-Trichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98

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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980828AC01		Da	Loc	received: 08	3/28/98 3/28/98 ay, Inc.
continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
cis-1,3-Dichloropropene	EPA-3010	<5	ug/kg	BW-D	08/31/98
2-Chloroethyl vinyl ether	EPA-8010	<5	ug/kg	BW-D	08/31/98
Bromoform	EPA-8010	<5	ug/kg	BM-D	08/31/98
1,1,2,2-Tetrachloroethane	EPA-3010	<5	ug/kg	BW-D	08/31/98
Tetrachloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98
Chlorobenzene	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,2-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-D	08/31/98
1 3-Dichlorobenzene	EPA-3010	<5	ug/kg	BW-D	08/31/98
1,4-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-D	08/31/98
Benzene	EPA-3020	<5	ug/kg	BW-D	08/31/98
Toluene	EFA-8020	<5	ug/kg	BW-D	08/31/98
Ethylbenzene	EPA-3020	<5	ug/kg	BW-D	08/31/98
Chlorobenzene	EFA-8020	<5	ug/kg	BW-D	08/31/98
p-Dichlorobenzene	EFA-3020	<5	ug/kg	BW-D	08/31/98
m-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-D	08/31/98
o-Dichlorobenzene	EPA-6020	<5	ug/kg	BW-D	08/31/98
Xylenes	EPA-8020	<5	ug/kg	BW-D	08/31/98



CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980828AC02		Da	Loc	received: 08	28/98 28/98 y, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	<u>TEST</u> <u>DATE</u>
Chloromethane	EFA-8010	<5	ug/kg	BW-D	08/31/98
Bromomethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Dichlorodifluoromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Vinyl Chloride	EPA-8010	<5	ug/kg	BW-D	08/31/98
Chloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Methylene Chloride	EPA-8010	<5	ug/kg	BW-D	08/31/98
Trichloroflouromethane	EFA-8010	<5	ug/kg	BW-D	08/31/98
<sup>1</sup> 1-Dichloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,1-Dichloroethane	EPA-8010	<5	ug/kg	B₩-D	08/31/98
Total 1,2 Dichloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98
Chloroform	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,2-Dichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
- 1,1,1-Trichloroethane	EFA-3010	<5	ug/kg	BW-D	08/31/98
Carbon Tetrachloride	EFA-8010	<5	ug/kg	BW-D	08/31/98
Bromo dichloromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,2-Dichloropropane	EPA-8010	<5	ug/kg	BW-D	08/31/98
trans-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BW-D	08/31/98
Trichloroethene	EPA-3010	<5	ug/kg	BW-D	08/31/98
Dibromochloromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,1,2-Trichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98



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	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: _CDM-VEW2-Soil 2 AES sample #: 980828ACO2 Samples taken by: .			Date Sampled: 08/28/98 Date sample received: 08/28/98 J.P.Blaum Location: Korkay, Inc.			
	-	MATRIX: Soil	J.F.DIAUM		posite	y, inc.	
	continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE	
-	cis-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BW-D	08/31/98	
-	2-Chloroethyl vinyl ether	EPA-8010	<5	ug/kg	BW-D	08/31/98	
	Bromoform	EPA-8010	<5	ug/kg	BW-D	08/31/98	
-	1,1,2,2-Tetrachloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98	
	Tetrachloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98	
	Chlorobenzene	EFA-8010	<5	ug/kg	BW-D	08/31/98	
-	1,2-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-D	08/31/98	
	<sup>1</sup> 3-Dichlorobenzene	EFA-8010	<5	ug/kg	BW-D	08/31/98	
	1,4-Dichlorobenzene	EFA-8010	<5	ug/kg	BW-D	08/31/98	
	Benzene	EPA-8020	<5	ug/kg	BW-D	08/31/98	
-	Toluene	EPA-3020	<5	ug/kg	BW-D	08/31/98	
_	Ethylbenzene	EFA-3020	<5	ug/kg	BW-D	08/31/98	
-	Chlorobenzene	EFA-8020	<5	ug/kg	BW-D	08/31/98	
	p-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-D	08/31/98	
	m-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-D	08/31/98	
-	o-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-D	08/31/98	
	Xylenes	EPA-8020	<5	ug/kg	BW-D	08/31/98	



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2		ate Sample ate sample	d: 08 received: 08	08/28/98 red: 08/28/98	
-	AES sample #: 980828ACO3	Samples taken by: MATRIX: Soil	J.P.Blaum	Loc		y, Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	Chloromethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Bromomethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Dichlorodifluoromethane	EPA-8010	<5	ug/kg	BM-B	09/01/98
•	Vinyl Chloride	EFA-8010	<5	ug/kg	BW-B	09/01/98
	Chloroethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Methylene Chloride	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	Trichloroflouromethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	1-Dichloroethene	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	1,1-Dichloroethane	EPA-3010	<5	ug/kg	BW-B	09/01/98
	Total 1,2 Dichloroethene	EPA-3010	<5	ug/kg	BW-B	09/01/98
-	Chloroform	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	1,2-Dichloroethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	1,1,1-Trichloroethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	Carbon Tetrachloride	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Bromo dichloromethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	1,2-Dichloropropane	EFA-8010	<5	ug/kg	BW-E	09/01/98
	trans-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Trichloroethene	EPA-3010	<5	ug/kg	BW-B	09/01/98
-	Dibromochloromethane	EFA-8010	<5	ug/kg	BW-B	09/01/98
	1,1,2-Trichloroethane	EPA-8010	<5	ug/kg	BW-B	09/01/98

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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2 AES sample #: 980628AC03	Date Sampled: 08/28/98 Date sample received: 08/28/98 J.P.Blaum Location: Korkay, Inc				
-	continued:	Samples taken by: MATRIX: Soil		COM	posite	
-	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EFA-8010	<5	ug/kg	BW-B	09/01/98
-	2-Chloroethyl vinyl ether	EFA-8010	<5	ug/kg	BW-B	09/01/98
	Bromoform	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	1,1,2,2-Tetrachloroethane	EPA-8010	<5	ug/kg	BW-S	09/01/98
	Tetrachloroethene	EPA-8010	<5	ug/kg	BM-B	09/01/98
	Chlorobenzene	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	1,2-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	09/01/98
	1 3-Dichlorobenzene	EPA-3010	<5	ug/kg	BW-B	09/01/98
-	1,4-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Benzene	EFA-8020	<5	ug/kg	BW-B	09/01/98
-	Toluene	EPA-8020	<5	ug/kg	BW-B	09/01/98
	Ethylbenzene	EFA-8020	<5	ug/kg	BW-B	09/01/98
	Chlorobenzene	EPA-3020	<5	ug/kg	BW-B	09/01/98
-	p-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-B	09/01/98
	m-Dichlorobenzene	EPA-3020	<5	ug/kg	BW-B	09/01/98
-	o-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-B	09/01/98
	Xylenes	EPA-8020	<5	ug/kg	BW-B	09/01/98



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2 AES sample #: 980828AC04		Da	Loc	received: 08	/28/98 /28/98 y, Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	Chloromethane	EPA-8010	<100	ug/kg	BW-B	09/01/98
-	Bromomethane	EPA-8010	<100	ug/kg	BW-B	09/01/98
	Dichlorodifluoromethane	EFA-8010	<100	ug/kg	BM-B	09/01/98
-	Vinyl Chloride	EPA-6010	<100	ug/kg	EW-B	09/01/98
	Chloroethane	EFA-8010	<100	ug/kg	BW-B	09/01/98
-	Methylene Chloride	EPA-6010	<100	ug/kg	BW-B	09/01/98
-	Trichloroflouromethane	EFA-8010	<100	ug/kg	BW-B	09/01/98
-	1.1-Dichloroethene	EPA-6010	<100	ug/kg	BW-B	09/01/98
-	1,1-Dichloroethane	EFA-3010	<100	ug/kg	BW-B	09/01/98
	Total 1,2 Dichloroethene	EPA-8010	150	ug/kg	BW-B	09/01/98
-	Chloroform	EPA-8010	<100	ug/kg	BW-B	09/01/98
-	1,2-Dichloroethane	EPA-3010	<100	ug/kg	BW-B	09/01/98
-	1,1,1-Trichloroethane	EPA-6010	<100	ug/kg	BW-B	09/01/98
-	Carbon Tetrachloride	EPA-8010	<100	ug/kg	BW-B	09/01/98
	Bromo dichloromethane	EPA-6010	<100	ug/kg	BW-B	09/01/98
-	1,2-Dichloropropane	EPA-8010	<100	ug/kg	BW-B	09/01/98
-	trans-1,3-Dichloropropene	EPA-8010	<100	ug/kg	BM-B	09/01/98
-	Trichloroethene	EPA-8010	<100	ug/kg	BW-B	09/01/98
-	Dibromochloromethane	EFA-8010	<100	ug/kg	BM-B	09/01/98
	1,1,2-Trichloroethane	EPA-3010	<100	ug/kg	BW-B	69/01/98



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2 AES sample #: 980828AC04		Dat	Loc	received: 03	/28/98 /28/98 y, Inc.
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EPA-8010	<100	ug/kg	BW-B	09/01/98
-	2-Chloroethyl vinyl ether	EPA-8010	<100	ug/kg	BW-B	09/01/98
	Bromoform	EPA-8010	<100	ug/kg	BW-B	09/01/98
	1,1,2,2-Tetrachloroethane	EPA-8010	<100	ug/kg	BW-B	09/01/98
	Tetrachloroethene	EPA-8010	<100	ug/kg	BW-B	09/01/98
	Chlorobenzene	EPA-8010	<100	ug/kg	BW-B	09/01/98
	1,2-Dichlorobenzene	EPA-8010	<100	ug/kg	BW-B	09/01/98
	1 3-Dichlorobenzene	EFA-8010	<100	ug/kg	BM-B	09/01/98
-	1,4-Dichlorobenzene	EPA-8010	<100	ug/kg	BW-B	09/01/98
	Benzene	EPA-8020	<100	ug/kg	BW-B	09/01/98
-	Toluene	EPA-8020	<100	ug/kg	BW-B	09/01/98
-	Ethylbenzene	EPA-8020	120	ug/kg	BW-B	09/01/98
-	Chlorobenzene	EPA-8020	<100	ug/kg	BW-B	09/01/98
-	p-Dichlorobenzene	EFA-3020	<100	ug/kg	BW-B	09/01/98
	m-Dichlorobenzene	EPA-8020	<100	ug/kg	BW-B	09/01/98
	o-Dichlorobenzene	EPA-8020	<100	ug/kg	BW-B	09/01/98
	Xylenes	EPA-8020	150	ug/kg	BW-B	09/01/98



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980828AC05		Da		received: 08	/28/98 /28/98 y, Inc.
	MATRIX: Soil			posite	
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EFA-8010	<500	ug/kg	BW-B	09/01/98
Bromomethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
Dichlorodifluoromethane	EPA-3010	<500	ug/kg	BW-B	09/01/98
Vinyl Chloride	EFA-3010	<500	ug/kg	BW-B	09/01/98
Chloroethane	EPA-8010	<500	ug/kg	BW-B	09/01/93
Methylene Chloride	EPA-3010	<500	ug/kg	BW-B	09/01/98
Trichloroflouromethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
1.1-Dichloroethene	EPA-8010	<500	ug/kg	BW-B	09/01/98
1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
Total 1,2 Dichloroethene	EPA-8010	710	ug/kg	BW-B	09/01/98
Chloroform	EPA-8010	<500	ug/kg	BW-B	09/01/98
1,2-Dichloroethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
Carbon Tetrachloride	EPA-8010	<500	ug/kg	BW-B	09/01/98
Bromo dichloromethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
1,2-Dichloropropane	EPA-8010	<500	ug/kg	BW-B	09/01/98
trans-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-B	09/01/98
Trichloroethene	EPA-8010	<500	ug/kg	BW-B	09/01/98
Dibromochloromethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
1,1,2-Trichloroethane	EPA-3010	<500	ug/kg	BW-B	09/01/98



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CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2 AES sample #: 980823AC05	-Soil 5 Samples taken by:	Da	Loc	received: 03 ation: Korka	/28/98 /28/98 y, Inc.
continued: PARAMETER PERFORMED	MATRIX: Soil <u>METHOD</u>	RESULT	UNITS	posite <u>NCTEBK REF</u>	TEST DATE
<pre>cis-1,3-Dichloropropene</pre>	EPA-3010	<500	ug/kg	BW-E	09/01/98
2-Chloroethyl vinyl ether	EPA-3010	<500	ug/kg	BW-B	09/01/98
Bromoform	EPA-3010	<500	ug/kg	BW-B	09/01/98
1,1,2,2-Tetrachloroethane	EPA-8010	<500	ug/kg	BW-B	09/01/98
Tetrachloroethene	EPA-8010	<500	ug/kg	BW-B	09/01/98
Chlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/01/98
1,2-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/01/98
1 3-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/01/98
1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/01/98
Benzene	EPA-8020	<500	ug/kg	BW-B	09/01/98
Toluene	EPA-8020	<500	ug/kg	BW-B	09/01/98
Ethylbenzene	EPA-8020	2900	ug/kg	BW-B	09/01/98
Chlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/01/98
- p-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/01/98
m-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/01/98
-Dichlorobenzene	EPA-8020	<500	ug/kg	EW-B	09/01/98
Xylenes	EPA-8020	8600	ug/kg	EW-B	09/01/98



CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980828ACO6		Da	Loc	received: 08	228/98 2/28/98 29, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-6010	<5	ug/kg	BW-D	08/31/98
Bromomethane	EFA-8010	<5	ug/kg	BW-D	08/31/98
Dichlorodifluoromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Vinyl Chloride	EFA-3010	<5	ug/kg	BW-D	08/31/98
Chloroethane	EPA-8010	<5	ug/kg	BW-D	05/31/98
Methylene Chloride	EPA-8010	<5	ug/kg	BW-D	08/31/98
Trichloroflouromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1.1-Dichloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,1-Dichloroethane	EPA-3010	<5	ug/kg	BW-D	08/31/98
Total 1,2 Dichloroethene	EPA-8010	<5	ug/kg	BW-D	08/31/98
Chloroform	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,2-Dichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,1,1-Trichloroethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
Carbon Tetrachloride	EPA-3010	<5	ug/kg	BW-D	08/31/98
Bromo dichloromethane	EPA-8010	<5	ug/kg	BW-D	08/31/98
1,2-Dichloropropane	EPA-8010	<5	ug/kg	BW-D	08/31/98
trans-1,3-Dichloropropene	EFA-8010	<5	ug/kg	BW-D	08/31/98
Trichloroethene	EPA-8010	<5	ug/kg	BW-B	08/31/98
Dibromochloromethane	EPA-3010	<5	ug/kg	BW-B	03/31/98
1,1,2-Trichloroethane	EFA-3010	<5	ug/kg	BW-E	03/31/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 980828AC06		Da	Loc	received: 08	23/93 223/98 9, Inc.
	continued: PARAMETER PERFORMED	METTHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	cis-1,3-Dichloropropene	EPA-3010	<5	ug/kg	BW-B	08/31/98
-	2-Chloroethyl vinyl ether	EPA-3010	<5	ug/kg	BW-B	08/31/98
	Bromoform	EPA-8010	<5	ug/xg	BW-B	08/31/98
•	1,1,2,2-Tetrachloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Tetrachloroethene	EPA-3010	<5	ug/kg	BW-B	C8/31/98
-	Chlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,2-Dichlorobenzene	EPA-8010	<5	ug/kg	BM-B	08/31/98
	1.3-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,4-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Benzene	EFA-8020	<5	ug/kg	BW-B	08/31/98
•	Toluene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	Ethylbenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
-	Chlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
-	p-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	m-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-B	08/31/98
	o-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-B	08/31/98
	Xylenes	EPA-3020	<5	ug/kg	BW-B	08/31/98



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1	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3-Soil AES sample #: 980828AC07 Samp MATR:	-Soil 2 Samples taken by: MATRIX: Soil	Da Da J.P.Blaum	Date Sampled: Date sample r un Locat compo	ecelved: ion: Kor site	08/28/98 08/28/98 'kay, Inc.
	PARAMETER PERFORMED	<b>UCHTER</b>	RESULT	STINU	NOTEBK REF	TEST DATE
<b>U</b>	Chloromethane	EPA-8010	Ň	fsk∕fst.	BW-5	08/31/98
T	Bromomethane	EPA-8010	ů.	£√kg	Ew-B	08/31/98
	Dichlorodiflucromethane	EPA-8010	ć. Č	ng/kg	BW-B	08/31/98
T	Vinyl Chloride	EPA-6010	ŝ	ūd∕kg	BW-B	08/31/98
	Chloroethane	EFA-6010	ru A	£x∕£n	BW-B	08/31/98
T	Methylene Chloride	EPA-6010	∿. ℃	ng/kg	BW-B	08/31/98
l	Trichloroflouromethane	EPA-8010	د ت	ng/kg	BW-B	08/31/98
1	1.1-Dichloroethene	EFA-8010	N N	ng/kg	ସ-Mପ	08/31/98
Ţ	1,1-Dichloroethane	EPA-8010	Ň	ug/kg	DW-D	08/31/98
	Total 1,2 Dichloroethene	EPA-8010	in V	ng/kg	BW-B	06/31/98
I	Chloroform	EPA-8010	ы) V	ug/kg	BW-B	08/31/98
	1,2-Dichloroethane	EPA-8010	Š	D3∕kg	BW−B	08/31/98
4	1,1,1-Trichloroethane	EEA-8010	<5 5	bx∕br.	BW-B	06/31/98
Ŵ	Carbon Tetrachloride	EPA-6010	<5 5	ng/kg	BW-E	08/31/98
	Bromo dichloromethane	EPA-8010	<5 S	ng/kg	BW-B	08/31/98
ŧ.	1,2-Dichloropropane	EPA-8010	ŝ	ug/kg	EW-B	08/31/98
	trans-1,3-Dichloropropene	EFA-8010	رن ت	ng/kg	BW-B	08/31/98
T	Trichloroethene	EPA-8010	< ℃	£y/2n	EW-B	08/31/98
ŧ	Dibromochloromethane	EPA-6010	¢. ت	ug/kg	BW-B	08/31/98
	1,1,2-Trichloroethane	EPA-8010	ы V	ng/kg	EW-B	08/31/98
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	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 980828ACO7		Da	Loc	received: 08	/23/98 /28/98 y, Inc.
	continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EPA-2010	<5	ug/kg	BW-B	08/31/98
-	2-Chloroethyl vinyl ether	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Bromoform	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,1,2,2-Tetrachloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Tetrachloroethene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	Chlorobenzene	EPA-3010	<5	ug/kg	BW-B	08/31/98
_	1,2-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	1-3-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,4-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Benzene	EFA-3020	<5	ug/kg	BW-B	08/31/98
-	Toluene	EPA-8020	<5	ug/kg	BW-B	08/31/98
_	Ethylbenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	Chlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
•	p-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	m-Dichlorobenzene	EPA-3020	<5	ug/kg	EW-B	08/31/98
-	o-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-B	08/31/98
	Xylenes	EPA-8020	<5	ug/kg	BW-B	08/31/98



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980828ACO8		Da	Loc	received: 08	2/28/98 2/28/98 y, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-8010	<5	ug/kg	BM-B	08/31/98
Bromomethane	EPA-3010	<5	ug/kg	BW-B	08/31/98
Dichlorodifluoromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
<ul> <li>Vinyl Chloride</li> </ul>	EPA-8010	<5	ug/kg	BW-B	08/31/98
Chloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
Methylene Chloride	EPA-8010	<5	ug/kg	BW-B	08/31/98
Trichloroflouromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
1 1-Dichloroethene	EFA-8010	<5	ug/kg	BW-B	08/31/98
1,1-Dichloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
Total 1,2 Dichlorcethene	EFA-3010	<5	ug/kg	BW-B	08/31/98
Chloroform	EPA-8010	<5	ug/kg	BW-B	08/31/98
1,2-Dichloroethane	EPA-3010	<5	ug/kg	BW-B	08/31/98
1,1,1-Trichloroethane	EPA-6010	<5	ug/kg	BW-B	08/31/98
- Carbon Tetrachloride	EPA-8010	<5	ug/kg	BW-B	08/31/98
Bromo dichloromethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
1,2-Dichloropropane	EPA-8010	<5	ug/kg	BW-B	08/31/98
trans-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BW-B	08/31/98
Trichloroethene	EPA-8010	<5	ug/kg	BM-B	08/31/98
Dibromochloromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
1,1,2-Trichloroethane	EPA-3010	<5	ug/kg	BW-B	08/31/98



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 980828ACOS		Da	Loc	received: 08	/28/98 /28/98 y, Inc.
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EPA-3010	<5	ug/kg	BW-B	08/31/98
-	2-Chloroethyl vinyl ether	EPA-8010	<5	ug/kg	BM-B	08/31/98
	Bromoform	EPA-8010	<5	ug/kg	BM-B	08/31/98
-	1,1,2,2-Tetrachloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Tetrachloroethene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Chlorobenzene	EPA-8010	<5	ug/kg	BM-B	08/31/98
-	1,2-Dichlorobenzene	EFA-8010	<5	ug/kg	EW-B	08/31/98
	1 3-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,4-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Benzene	EPA-8020	<5	ug/kg	BM-B	08/31/98
-	Toluene	EPA-8020	<5	ug/kg	BW-B	08/31/98
_	Ethylbenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	Chlorobenzene	EPA-8020	<5	ug/kg	BM-B	08/31/98
-	p-Bichlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	m-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
-	o-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	Xylenes	EPA-3020	<5	ug/kg	BW-B	08/31/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3			ite Sample ite sample	d: 08 received: 08	/28/98 /28/98
-	AES sample #: 980828AC09	Samples taken by: MATRIX: Soil	J.P.Blaum		ation: Korka posite	y, Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	Chloromethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	Bromomethane	EFA-3010	<5	ug/kg	BW-B	08/31/98
	Dichlorodifluoromethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	Vinyl Chloride	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Chloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Methylene Chloride	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	Trichloroflouromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	1 1-Dichloroethene	EPA-3010	<5	ug/kg	BW-B	08/31/93
-	1,1-Dichloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Total 1,2 Dichloroethene	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	Chloroform	EPA-8010	<5	ug/kg	BW-B	08/31/98
_	1,2-Dichloroethane	EFA-3010	<5	ug/kg	BW-B	08/31/98
-	1,1,1-Trichloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	Carbon Tetrachloride	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Bromo dichloromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,2-Dichloropropane	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	trans-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BW-3	08/31/98
-	Trichloroethene	EPA-3010	<5	ug/kg	BW-B	08/31/98
-	Dibromochloromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	1,1,2-Trichloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 980828AC09		Da	Loc	received: 08	23/98 228/98 y, Inc.
	continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BM-B	08/31/98
-	2-Chloroethyl vinyl ether	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Bromoform	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,1,2,2-Tetrachloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Tetrachloroethene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	Chlorobenzene	<b>EPA</b> -8010	<5	ug/kg	BW-B	08/31/98
-	1,2-Dichlorobenzene	EPA-8010	5	ug/kg	BW-B	08/31/98
	1 3-Dichlorobenzene	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	1,4-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Benzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
-	Toluene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	Ethylbenzene	EPA-8020	24	ug/kg	BW-B	08/31/98
	Chlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
-	p-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-B	08/31/98
	m-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
	o-Dichlorobenzene	EPA-8020	5	ug/kg	BW-B	08/31/98
	Xylenes	EFA-8020	51	ug/kg	BW-B	08/31/98



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• •	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3- AES sample #: 960828AC10	e 3-Soil 5 Samples taken by: MATRIX: Soil	Da Da J.P.Blaum	Date Sampled Date sample : m Loca	: received: tion: Kor osite	08/23/98 08/28/98 rkay, Inc.
	PARAMETER PERFORMED	NETHOD	RESULT	STIMU	NOTERK REF	TEST DATE
ţ.	Chloromethane	EFA-8010	<500	bx∕bn	DW-5	09/10/60
U	Bromomethane	EFA-3010	<500	ng/kg	BW-B	39/01/9S
	Dichlorodifluoromethane	EPA-6010	<500	ng/kg	BW-B	06/t0/60
Ţ	Vinyl Chloride	EPA-6010	<500	D¥∕2u	BW-B	09/10/60
	Chloroethane	EPA-8010	<`500	by/br	DW-D	09/10/60
T	Methylene Chloride	EFA-8010	<500	ng/kg	BW-B	C9/01/98
ł	Trichloroflouromethane	EFA-6010	<500 00 500	5x/5n	G WC	09/01/98
	<pre>1-Dichloroethene</pre>	EFA-8010	<500	ng/kg	5W - 5	09/01/98
t	1,1-Dichloroethane	EFA-8010	<500	54/5n	GW-B	09/01/98
	Total 1,2 Dichloroethene	EFA-SCIO	<500	ng/kg	10W-10	09/10/60
T	Chloroform	EPA-8010	<500	ng/kg	5W-5	09/01/98
I	1,2-Dichloroethane	EFA-8010	<500	5x∕∑n	DW-B	96/10/60
l	1,1,1-Trichloroethane	0109-FEE	<500	ng/kg	3W-B	09/10/60
ų	Carbon Tetrachloride	EPA-6010	<500	ng/kg	BW-B	96/10/60
	Bromo dichloromethane	EFA-8010	<500	by∕br.	DW-D	09/01/98
ų	1,2-Dichloropropane	EFA-8010	<500	ng/kg	BW-B	06/10/60
:	trans-1,3-Dichloropropene	EFA-6010	<500	מל/צט	5W-55	09/01/98
ŧ.	Trichloroethene	EPA-8010	<500	ng/kg	84-B	09/01/98
	Dibromochloromethane	EPA-3010	<500	£x/5n	E-WE	09/01/98
	1,1,2-Trichloroethane	EPA-8010	<500	£√k⊊	BW-B	09/01/98
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•	MATRIX: Soil		Da	Date Sampled: 08/28/98 Date sample received: 08/28/98 J.F.Blaum Location: Korkay, Inc. composite		
	continued: PARAMETER PERFORMED	METTHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-B	09/01/98
-	2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-B	09/01/98
	Bromoform	EPA-3010	<500	ug/kg	BW-B	09/01/98
-	1,1,2,2-Tetrachloroethane	EFA-8010	<500	ug/kg	BW-B	09/01/98
	Tetrachloroethene	EPA-8010	<500	ug/kg	BW-B	09/01/98
	Chlorobenzene	EPA-8010	<500	ug/kg	BM-B	09/01/98
	1,2-Dichlorobenzene	EPA-8010	500	ug/kg	BW-B	09/01/98
	1 3-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/01/98
-	1,4-Dichlorobenzene	EFA-2010	<500	ug/kg	BW-B	09/01/98
	Benzene	EFA-8020	<500	ug/kg	BW-B	09/01/98
-	Toluene	EFA-8020	<500	ug/kg	BW-B	09/01/98
_	Ethylbenzene	EFA-8020	<500	ug/kg	BW-B	09/01/98
-	Chlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/01/98
-	p-Dichlorobenzene	EFA-8020	<500	ug/kg	BW-B	09/01/98
	m-Dichlorobenzene	EFA-8020	<500	ug/kg	BW-B	09/01/98
-	o-Dichlorobenzene	EPA-3020	500	ug/kg	BW-B	09/01/98
	Xylenes	EFA-8020	17,000	ug/kg	BW-B	09/01/98



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1	Date Sampled: 08/28/98 Date sample received: 08/28/98				
-	AES sample #: 980828AC11	Samples taken by: MATRIX: Soil	J.P.Blaum		ation: Korka posite	y, Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	Chloromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	Bromomethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Dichlorodifluoromethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	Vinyl Chloride	EFA-8010	<5	ug/kg	BW-B	08/31/98
	Chloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	Methylene Chloride	EPA-8010	<5	ug/kg	EW-B	08/31/98
	Trichloroflouromethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
	1 1-Dichloroethene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,1-Dichloroethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
	Total 1,2 Dichloroethene	EPA-3010	<5	ug/kg	BW-B	08/31/98
	Chloroform	EPA-8010	<5	ug/kg	BW-B	08/31/98
_	1,2-Dichloroethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	1,1,1-Trichloroethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	Carbon Tetrachloride	EPA-8010	<5	ug/kg	EW-B	08/31/98
	Bromo dichloromethane	EPA-8010	<5	ug/kg	EW-E	08/31/98
-	1,2-Dichloropropane	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	trans-1,3-Dichloropropene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	Trichloroethene	EPA-8010	60	ug/kg	BW-E	08/31/98
-	Dibromochloromethane	EPA-8010	<5	ug/kg	BW-B	08/31/98
	1,1,2-Trichloroethane	EPA-8010	<5	ug/kg	EW-B	03/31/98



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1-Soil 1 AES sample #: 930828AC11 Samples taken by: J		Da	te Sampled: 08/28/98 te sample received: 08/28/98 Location: Korkay, Inc.		
-	AES sample #: 980828AC11	MATRIX: Soil	J.F.DIAUM		posite	y, inc.
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	cis-1,3-Dichloropropene	EFA-8010	<5	ug/kg	BW-B	08/31/98
-	2-Chloroethyl vinyl ether	EPA-8010	<5	ug/kg	BM-B	08/31/98
	Bromoform	EPA-8010	<5	ug/kg	EW-B	08/31/98
-	1,1,2,2-Tetrachloroethane	EFA-8010	<5	ug/kg	BW-B	08/31/98
	Tetrachloroethene	EPA-8010	<5	ug/kg	BW-B	08/31/98
-	Chlorobenzene	EPA-8010	<5	ug/kg	BM-B	08/31/98
-	1,2-Dichlorobenzene	EPA-5010	<5	ug/kg	BW-B	08/31/98
	<sup>1</sup> 3-Dichlorobenzene	EPA-8010	<5	ug/kg	BW-B	08/31/98
	1,4-Dichlorobenzene	EFA-SO10	<5	ug/kg	BW-B	08/31/98
	Benzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
-	Toluene	EPA-8020	<5	ug/kg	EW-B	08/31/98
-	Ethylbenzene	EPA-8020	<5	ug/kg	BW-B	08/31/98
-	Chlorobenzene	EPA-3020	<5	ug/kg	BW-B	08/31/98
	p-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-B	08/31/98
	m-Dichlorobenzene	EPA-8020	<5	ug/kg	EW-B	09/01/98
-	o-Dichlorobenzene	EPA-8020	<5	ug/kg	E-ME	09/01/98
	Xylenes	EPA-8020	<5	ug/kg	BW-B	09/01/98



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 960828AC12		Da	Loc	received: OS	/28/98 /28/98 y, Inc.
	PARAMETER PERFORMED	METHOD	RESULT	<u>UNITS</u>	NOTEBK REF	TEST DATE
	Chloromethane	EFA-8010	<5	ug/kg	BW-B	09/01/98
-	Bromomethane	EPA-3010	<5	ug/kg	BW-B	09/01/98
	Dichlorodifluoromethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	Vinyl Chloride	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Chloroethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	Methylene Chloride	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	Trichloroflouromethane	EPA~8010	<5	ug/kg	BW-B	09/01/98
	1 1-Dichloroethene	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	1,1-Dichloroethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Total 1,2 Dichloroethene	EPA-8010	16	ug/kg	BW-B	09/01/98
-	Chloroform	EPA-8010	<5	ug/kg	BW-B	09/01/98
_	1,2-Dichloroethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	1,1,1-Trichloroethane	EPA-6010	<5	ug/kg	BW-B	09/01/98
-	Carbon Tetrachloride	EPA-8010	<5	ug/kg	BW-B	09/01/98
	Sromo dichloromethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
-	1,2-Dichloropropane	EFA-5010	<5	ug/kg	BW-B	09/01/98
-	trans-1,3-Dichloropropene	EFA-8010	<5	ug/kg	BW-B	09/01/98
-	Trichloroethene	EPA-8010	55	ug/kg	BW-B	09/01/98
-	Dibromochloromethane	EPA-8010	<5	ug/kg	BW-B	09/01/98
	1,1,2-Trichloroethane	EPA-3010	<5	ug/kg	BW-B	09/01/98

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CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1-Soil 2 AES sample #: 98082SAC12 Samples taken by: MATRIX: Soil		Da	Date Sampled: 08/28/98 Date sample received: 08/28/98 .P.Blaum Location: Korkay, Inc. composite			
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE	
cis-1,3-Dichloropropene	EPA-3010	<5	ug/kg	BW-B	09/01/98	
2-Chloroethyl vinyl ether	EPA-6010	<5	ug/kg	BW-B	09/01/98	
Bromoform	EPA-8010	<5	ug/kg	BM-B	09/01/98	
1,1,2,2-Tetrachloroethane	EPA-6010	<5	ug/kg	BW-B	09/01/98	
Tetrachloroethene	EPA-8010	<5	ug/kg	BW-B	09/01/98	
■ Chlorobenzene	EPA-8010	<5	ug/kg	BW-B	09/01/98	
1,2-Dichlorobenzene	EPA-8010	<5	ug/kg	EM-B	09/01/98	
1 3-Dichlorobenzene	EFA-8010	<5	ug/kg	BW-B	09/01/98	
1,4-Dichlorobenzene	EPA-3010	<5	ug/kg	BW-B	09/01/98	
Benzene	EPA-8020	<5	ug/kg	BM-B	09/01/98	
Toluene	EPA-8020	<5	ug/kg	BM-B	09/01/98	
Ethylbenzene	EPA-8020	<5	ug/kg	BW-B	09/01/98	
Chlorobenzene	EPA-8020	<5	ug/kg	BM-B	09/01/98	
p-Dichlorobenzene	EFA-8020	<5	ug/kg	BW-B	09/01/98	
m-Dichlorobenzene	EPA-8020	<5	ug/kg	BW-B	09/01/98	
o-Dichlorobenzene	EFA-6020	<5	ug/kg	BM-B	09/01/98	
Xylenes	EPA-8020	11	ug/kg	BM-B	09/01/98	



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CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1 AES sample #: 980628AC13	-Soil 3 Samples taken by:	Da	Ĺoc	received: 08 ation: Korka	/28/98 /28/98 y, Inc.
PARAMETER PERFORMED	MATRIX: Soil METHOD	RESULT	com <u>UNITS</u>	posite N <u>OTEBK REF</u>	TEST DATE
Chloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromomethane	EPA-3010	<500	ug/kg	BW-D	09/01/98
Dichlorodifluoromethane	EPA-8010	<500	ug/kg	B₩-D	09/01/98
Vinyl Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Chloroethane	EPA-8010	<500	ug/kg	EW-D	09/01/98
Methylene Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Trichloroflouromethane	EFA-8010	<500	ug/kg	BW-D	09/01/98
1 1-Dichloroethene	EFA-8010	<500	ug/kg	EW-D	09/01/98
1,1-Dichloroethane	EPA-3010	<500	ug/kg	BW-D	09/01/98
Total 1,2 Dichloroethene	EPA-6010	1500	ug/kg	BW-D	09/01/98
Chloroform	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Carbon Tetrachloride	EFA-8010	<500	ug/kg	BW-D	09/01/98
Bromo dichloromethane	EPA-6010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloropropane	EPA-8010	<500	ug/kg	BM-D	09/01/98
trans-1,3-Dichloropropene	EPA-6010	<500	ug/kg	BW-D	09/01/98
Trichloroethene	EFA-3010	<500	ug/kg	EW-D	09/01/98
Dibromochloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,2-Trichloroethane	EPA-6010	<500	ug/kg	BW-D	09/01/98



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1 AES sample #: 980828AC13		Da	Loc	received: 08	26/98 2/23/98 y, Inc.
_	continued: PARAMETER PERFORMED	METTHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-D	09/01/98
#	2-Chloroethyl vinyl ether	EPA-3010	<500	ug/kg	BW-D	09/01/98
	Bromoform	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	1,1,2,2-Tetrachloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
	Tetrachloroethene	EPA-2010	<500	ug/kg	BW-D	09/01/98
-	Chlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	1,2-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98
	1.3-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98
	Benzene	EPA-8020	<500	ug/kg	BW-D	09/01/98
	Toluene	EPA-8020	590	ug/kg	BW-D	09/01/98
	Ethylbenzene	EFA-8020	2400	ug/kg	BW-D	09/01/98
	Chlorobenzene	EPA-8020	<500	ug/kg	BW-D	09/01/98
-	p-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-D	09/01/98
	m-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-D	09/01/98
-	o-Dichlorobenzene	EPA-8020	<500	ug/xg	BW-D	09/01/98
	Xylenes	EPA-3020	33,000	ug/kg	BW-D	09/01/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1	Date Sampled: 08/28/98 Date sample received: 08/28/98				
-	<b>AES sample #: 980828AC14</b>	Samples taken by: MATRIX: Soil		Loc		y, Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	Chloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	Bromomethane	EFA-8010	<500	ug/kg	BW-D	09/01/98
	Dichlorodifluoromethane	EFA-8010	<500	ug/kg	BW-D	09/01/98
-	Vinyl Chloride	EPA-3010	<500	ug/kg	BW-D	09/01/98
	Chloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	Methylene Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	Trichloroflouromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
	1.1-Dichloroethene	EPA-8010	<500	ug/kg	EW-D	09/01/98
	1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
	Total 1,2 Dichloroethene	EPA-8010	3200	ug/kg	BW-D	09/01/98
-	Chloroform	EPA-8010	<500	ug/kg	BW-D	09/01/98
_	1,2-Dichloroethane	EPA-2010	<500	ug/kg	BM-D	09/01/98
	1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	Carbon Tetrachloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
	Bromo dichloromethane	EPA-6010	<500	ug/kg	BW-D	09/01/98
-	1,2-Dichloropropane	EPA-8010	<500	ug/kg	BW-D	09/01/98
_	trans-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW~D	09/01/98
	Trichloroethene	EPA-3010	4600	ug/kg	BW-D	09/01/98
-	Dibromochloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
	1,1,2-Trichloroethane	EFA-8010	<500	ug/kg	BW-D	09/01/98



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-	MATRIX: Soil		Da	Date Sampled: 08/28/98 Date sample received: 08/28/98 P.Elaum Location: Korkay, Inc. composite			
	continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE	
	cis-1,3-Dichloropropene	EFA-8010	<500	ug/kg	BW-D	09/01/98	
	2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-D	09/01/98	
	Bromoform	EPA-8010	<500	ug/kg	BW-D	09/01/98	
	1,1,2,2-Tetrachloroethane	EFA-8010	<500	ug/kg	BW-D	09/01/98	
_	Tetrachloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98	
•	Chlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98	
	1,2-Dichlorobenzene	EPA-8010	630	ug/kg	BW-D	09/01/98	
	1 3-Dichlorobenzene	EFA-8010	<500	ug/kg	BW-D	09/01/98	
<b>#</b>	1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98	
	Benzene	EFA-8020	<500	ug/kg	BW-D	09/01/98	
•	Toluene	EPA-8020	2100	ug/kg	BW-D	09/01/98	
	Ethylbenzene	EPA-8020	7200	ug/kg	BW-D	09/01/98	
	Chlorobenzene	EPA-8020	< 500	ug/kg	BW-D	09/01/98	
	p-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-D	09/01/98	
	m-Dichlorobenzene	EFA-8020	<500	ug/kg	BW-D	09/01/98	
	o-Dichlorobenzene	EPA-8020	630	ug/kg	BW-D	09/01/98	
	Xylenes	EFA-8020	55,000	ug/kg	BW-D	09/01/93	



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW	Date Sampled: 08/28/98 Date sample received: 08/28/98				
AES sample #: 980828AC15	Samples taken by: MATRIX: Soil	J.P.Blaum		ation: Korka posite	y, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EFA-8010	<500	ug/kg	BW-B	09/02/98
Bromomethane	EPA-6010	<500	ug/kg	BW-B	09/02/98
Dichlorodifluoromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
Vinyl Chloride	EFA-8010	<500	ug/kg	BW-B	09/02/98
Chloroethane	EFA-6010	<500	ug/kg	BW-B	09/02/98
Methylene Chloride	EPA-8010	<500	ug/kg	BM-B	09/02/98
Trichloroflouromethane	EPA-8010	<500	ug/kg	BW-E	09/02/98
1-1-Dichloroethene	EPA-6010	<500	ug/kg	BW-B	09/02/98
1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
Total 1,2 Dichloroethene	EPA-3010	5500	ug/kg	BW-B	09/02/98
Chloroform	EPA-8010	<500	ug/kg	BW-B	09/02/98
1,2-Dichloroethane	EPA-8010	<500	ug/kg	BM-B	09/02/98
1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
Carbon Tetrachloride	EFA-3010	<500	ug/kg	EW-B	09/02/98
Bromo dichloromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
1,2-Dichloropropane	EPA-3010	<500	ug/kg	BW-B	09/02/98
trans-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-B	09/02/98
Trichloroethene	EPA-8010	6700	ug/kg	BW-B	09/02/98
Dibromochloromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
1,1,2-Trichloroethane	EPA-3010	<500	ug/kg	EW-B	09/02/98



ł	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1-Soil 5 AES sample #: 980828AC15 Samples taken by: . MATRIX: Soil		Da	Date Sampled: 08/28/98 Date sample received: 08/28/98 J.P.Blaum Location: Korkay, Inc. composite			
_	continued: PARAMETER PERFORMED	METHOD	RESULT	com <u>UNITS</u>	NOTEBK REF	TEST DATE	
-	cis-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-E	09/02/98	
-	2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-B	09/02/98	
	Bromoform	EPA-8010	<500	ug/kg	BW-E	09/02/98	
-	1,1,2,2-Tetrachloroethane	EPA-8010	<500	ug/kg	BW~B	09/02/98	
	Tetrachloroethene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
-	Chlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
	1,2-Dichlorobenzene	EPA-8010	1700	ug/kg	BW-B	09/02/98	
	1 3-Dichlorobenzene	EPA-6010	<500	ug/kg	BW-B	09/02/98	
-	1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
	Benzene	EFA-8020	<500	ug/kg	BW-B	09/02/98	
	Toluene	EFA-8020	6400	ug/kg	BW-B	09/02/98	
-	Ethylbenzene	EPA-8020	14,000	ug/kg	BW-B	09/02/98	
	Chlorobenzene	EPA-8020	<500	ug/kg	BW-E	09/02/98	
	p-Dichlorobenzene	EPA-3020	<500	ug/kg	BW-B	09/02/98	
	m-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/02/98	
	o-Dichlorobenzene	EPA-8020	1700	ug/kg	BW-B	09/02/98	
_	Xylenes	EFA-8020	52,000	ug/kg	BW-B	09/02/98	



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW4-Soil 2 AES sample #: 980828AC16 Samples taken by:		Da	1,			
		MATRIX: Soil		com	posite		
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE	
	Chloromethane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
-	Bromomethane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
	Dichlorodifluoromethane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
-	Vinyl Chloride	EPA-8010	<50	ug/kg	BW-B	09/04/98	
	Chloroethane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
-	Methylene Chloride	EPA-3010	<50	ug/kg	BW-B	09/04/98	
-	Trichloroflouromethane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
	1 1-Dichloroethene	EPA-8010	<50	ug/kg	BW-B	09/04/98	
-	1,1-Dichloroethane	EFA-8010	<50	ug/kg	BW-B	09/04/98	
	Total 1,2 Dichloroethene	EPA-8010	<50	ug/kg	BW-B	09/04/98	
-	Chloroform	EPA-3010	<50	ug/kg	BW-B	09/04/98	
-	1,2-Dichloroethane	EPA-8010	<50	ug/kg	BW-E	09/04/98	
	1,1,1-Trichloroethane	EPA-8010	<50	ug/kg	EW-B	09/04/98	
-	Carbon Tetrachloride	EPA-8010	<50	ug/kg	BM-B	09/04/98	
	Bromo dichloromethane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
	1,2-Dichloropropane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
-	trans-1,3-Dichloropropene	EPA-8010	<50	ug/kg	BW-B	09/04/98	
	Trichloroethene	EPA-3010	84	ug/kg	BW-B	09/04/98	
-	Dibromochloromethane	EPA-8010	<50	ug/kg	BW-B	09/04/98	
	1,1,2-Trichloroethane	EFA-8010	<50	ug/kg	BW-B	69/04/98	



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CLIENT'S	T: Camp Dresser & McKee T'S SAMPLE ID: CDM-VEW4-Scil	Soll 2	Date Date		eceive	08/28/98 08/28/98
AES So		Samples taken by: MATRIX: Soil	J.P.Blaum	Loca	Location: Korka composite	Korkay, Inc.
	continued: <u>PARAVETER</u> <u>PERFORMED</u>	COHLEN	RESULT	UNITS	NOTEBK REF	TEST DATE
CIS-1	cis-1,3-Dichloropropene	EFA-8010	<50	הק∕אק	11 - MQ	09/04/98
2-Ch16	2-Chloroethyl vinyl ether	EFA-6010	<50	ng/kg	G~~%C	09/04/98
Bromoform	1 OLTI	55A-8010	<50	ng/kg	a-Ma	36/90/60
1,1,2	1,1,2,2-Tetrachloroethane	52A-8010	<:50	ng/kg	0w-D	09/04/98
Tetra	Tetrachloroethene	EFA-8010	<0 S O O O	ng/kg	BW-B	09/04/98
Chlore	Chlorobenzene	EFA-SOLO	<ul><li>N0</li><li>N0</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N</li><li>N<td>ug/kg</td><td>а-ма</td><td>06/04/96</td></li></ul>	ug/kg	а-ма	06/04/96
1,2-D:	1,2-Dichlorobenzene	EPA-6010	<50	£⊀/2n	BW-B	09/04/98
	1.3-Dichlorobenzene	514-8010	<50	ng/kg	BW-B	09/04/98
1,4-D:	1,4-Dichlorobenzene	554-8010	<50	ng/kg	EW-B	09/04/93
Benzene	ne	EFA-6020	<ul><li>CU</li><li>O</li></ul>	'ng/kg	EW- MC	09/04/98
Toluenê	ne	EPA-8020	<50	ng/kg	EW-B	09/04/93
Ethyll	Ethylbenzene	EFA-8020	< 50	ng/kg	GW-B	03/04/38
	Chlorobenzene	EPA-8020	000	5x∕5n	EW-B	09/04/98
p-Dic)	p-Dichlorobenzene	EFA-8020	<50	ug/kg	5W-5	09/04/98
m-Dic)	m-Dichlorobenzenê	EPA-SC20	<ul><li>√50</li></ul>	ng/kg	BW-B	09/0∉/38
o-Dict	o-Dichlorobenzene	EFA-6020	<50	ng/kg	ы М-Б	09/04/39
Xylenes	es S	EPA-8020	Q 0 0	ng/kg	BW-B	09/04/98

- Hartford, CT Albany, NY + Buffalo, NY + Rochester, NY + Saratoga Springs, NY + Syracuse, NY + Basking Ridge, NJ

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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEN	ee V4-Soil 3		te Sample te sample	d: 08 received: 08	/28/98
AES sample #: 980828AC17	Samples taken by: MATRIX: Soil		Loc		y, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromomethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Dichlorodifluoromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Vinyl Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Chloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Methylene Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Trichloroflouromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1.1-Dichloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Total 1,2 Dichloroethene	EFA-3010	<500	ug/kg	BW-D	09/01/98
Chloroform	EPA-6010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,1-Trichloroethane	EPA-3010	<500	ug/kg	BW-D	09/01/98
Carbon Tetrachloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromo dichloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloropropane	EFA-8010	<500	ug/kg	BW-D	09/01/98
trans-1,3-Dichloropropene	EFA-8010	<500	ug/kg	BW-D	09/01/98
Trichloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
Dibromochloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,2-Trickloroethane	EPA-3010	<500	ug/kg	BW-D	09/01/98



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CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980828AC17		Da	Loc	received: C8	/28/98 /28/98 y, Inc.
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
cis-1,3-Dichloropropene	EFA-8010	<500	ug/kg	BW-D	09/01/98
2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromoform	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,2,2-Tetrachloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Tetrachloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
Chlorobenzene	EFA-8010	<500	ug/kg	BW-D	09/01/98
1,2-Dichlorobenzene	EPA-8010	<500	ug/kg	EW-D	09/01/98
1.3-Dichlorobenzene	EPA-3010	<500	ug/kg	BW-D	09/01/98
1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98
Benzene	EPA-8020	<500	ug/kg	BW-D	09/01/98
Toluene	EPA-8020	<500	ug/kg	BW-D	09/01/98
Ethylbenzene	EFA-8020	720	ug/kg	BW+D	09/01/98
Chlorobenzene	EPA-8020	<500	ug/kg	EW-D	09/01/98
p-Dichlorobenzene	EPA-3020	<500	ug/kg	BW-D	09/01/98
m-Dichlorobenzene	EFA-8020	<500	ug/kg	BW-D	09/01/98
o-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-D	09/01/98
Xylenes	EFA-3C2O	9400	ug/kg	BW-D	09/01/98



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980828AC18		Da	Loc	received: 08	28/98 228/98 9, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEEK REF	TEST DATE
Chloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromomethane	EPA-8010	<500	ug/kg	EW-D	09/01/98
Dichlorodifluoromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Vinyl Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Chloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Methylene Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Trichloroflouromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1.1-Dichloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Total 1,2 Dichloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
Chloroform	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Carbon Tetrachloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromo dichloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloropropane	EPA-8010	<500	ug/kg	BW-D	09/01/98
trans-1,3-Dichloropropene	EFA-8010	<500	ug/kg	BW-D	09/01/98
Trichloroethene	EPA-8010	2300	ug/kg	BW-D	09/01/98
Dibromochloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,2-Trichloroethane	EPA-3010	<500	ug/kg	BW-D	09/01/98

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	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW4 AES sample #: 980828AC18		Da	Loc	received: 08	/28/98 /28/98 y, Inc.
_	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METTHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	cis-1,3-Dichloropropene	EPA~3010	<500	ug/kg	BW-D	09/01/98
-	2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-D	09/01/98
	Bromoform	EPA~8010	<500	ug/kg	BW-D	09/01/98
-	1,1,2,2-Tetrachloroethane	EPA-8010	<500	ug/kg	SW-D	09/01/98
_	Tetrachloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
	Chlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98
-	1,2-Dichlorobenzene	EPA-3010	5500	ug/kg	BW-D	09/01/98
	<sup>1</sup> .3-Dichlorobenzene	EFA~6010	<500	ug/kg	B₩-D	09/01/98
	1,4-Dichlorobenzene	EFA-8010	<500	ug/kg	BW-D	09/01/98
	Benzene	EPA~6020	<500	ug/kg	BW-D	09/01/98
	Toluene	EFA~8020	12,000	ug/kg	BW-D	09/01/98
-	Ethylbenzene	EFA~8020	19,000	ug/kg	BW-D	09/01/98
	Chlorobenzene	EFA-8020	<500	ug/kg	BW-D	09/01/98
-	p-Dichlorobenzene	EFA-8020	<500	ug/kg	BW-D	09/01/98
	m-Dichlorobenzene	EPA-3020	<500	ug/kg	BW-D	09/01/98
	o-Dichlorobenzene	EFA-8020	5500	ug/kg	BW-D	09/01/98
	Xylenes	EPA-8020	120,000	ug/kg	BW-D	09/01/98



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	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW4	4-Soil 5	Da		received: 08	
	AES sample #: 980828AC19	Samples taken by: MATRIX: Soil	J.P.Blaum		ation: Korka posite	y, Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	Chloromethane	EFA-8010	<500	ug/kg	BW-B	09/02/98
	Bromomethane	EFA-8010	<500	ug/kg	BW-B	09/02/98
	Dichlorodifluoromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
-	Vinyl Chloride	EFA-8010	<500	ug/kg	BW-B	09/02/98
	Chloroethane	EPA-8010	<500	ug/kg	BW-E	09/02/98
-	Methylene Chloride	EFA-8010	<500	ug/kg	BW-B	09/02/98
-	Trichloroflouromethane	EPA-3010	<500	ug/kg	BW-B	09/02/98
	<sup>1</sup> 1-Dichloroethene	EPA-8010	<500	ug/kg	BW-B	09/02/98
-	1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
	Total 1,2 Dichloroethene	EPA-8010	<500	ug/kg	BW-B	09/02/93
•	Chloroform	EPA-8010	<500	ug/kg	BW-B	09/02/98
-	1,2-Dichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
	1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
-	Carbon Tetrachloride	EPA-8010	<500	ug/kg	BM-B	09/02/98
	Bromo dichloromethane	EPA-3010	<500	ug/kg	BW-B	09/02/98
-	1,2-Dichloropropane	EPA-8010	<500	ug/kg	BW-B	09/02/98
-	trans-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-B	09/02/98
	Trichloroethene	EPA-8010	<500	ug/kg	BW-B	09/02/98
-	Dibromochloromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98
	1,1,2-Trichloroethane	EPA-8010	<500	ug/kg	BW-B	C9/02/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW4			te Sample te sample	d: 08 received: 08	/28/98
-	AES sample #: 980828AC19	Samples taken by: MATRIX: Soil		Loc		y, Inc.
	continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
_	cis-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-E	09/02/98
-	2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-B	09/02/98
	Bromoform	EPA-8010	<500	ug/kg	BW-B	09/02/98
•	1,1,2,2-Tetrachloroethane	EFA-8010	<500	ug/kg	BW-B	09/02/98
	Tetrachloroethene	EPA-8010	<500	ug/kg	BW-E	09/02/98
	Chlorobenzene	EFA-8010	<500	ug/kg	BW-B	09/02/98
-	1,2-Dichlorobenzene	EPA-8010	1600	ug/kg	BW-B	09/02/98
	1 3-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/02/98
-	1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/02/98
	Benzene	EFA-8020	<500	ug/kg	BW-B	09/02/98
-	Toluene	EPA-8020	3500	ug/kg	BW-E	09/02/98
_	Ethylbenzene	EFA-8020	<500	ug/kg	BW-B	09/02/98
-	Chlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/02/98
	p-Dichlorobenzene	EFA-8020	<500	ug/kg	BW-B	09/02/98
	m-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/02/98
-	o-Dichlorobenzene	EPA-8020	1800	ug/kg	BW-B	09/02/98
	Xylenes	EPA-8020	33,000	ug/kg	BW-B	09/02/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW-			te Sample te sample	d: 08 received: 08	/28/98 /28/98
	AES sample #: 980828AC20	Samples taken by: MATRIX: Soil	J.P.Blaum		ation: Korka posite	y, Inc.
	PARAMETER PERFORMED	METHOD	<u>RESULT</u>	UNITS	NOTEBK REF	TEST DATE
-	Chloromethane	EFA-8010	<25	ug/kg	BW-B	09/02/98
Ţ	Bromomethane	EPA-8010	<25	ug/kg	BW-B	09/02/98
	Dichlorodifluoromethane	EPA-8010	<25	ug/kg	BW-B	09/02/98
	Vinyl Chloride	EFA-3010	<25	ug/kg	BW-B	09/02/98
	Chloroethane	EFA-8010	<25	ug/kg	BW-B	09/02/98
	Methylene Chloride	EFA-8010	<25	ug/kg	BN-B	09/02/98
-	Trichloroflouromethane	EFA-3010	<25	ug/kg	BW-B	09/02/98
	<sup>1</sup> 1-Dichloroethene	EPA-8010	<25	ug/kg	BM-B	09/02/98
-	1,1-Dichloroethane	EFA-8010	<25	ug/kg	BW-B	09/02/98
	Total 1,2 Dichloroethene	EFA-8010	<25	ug/kg	BW-B	09/02/98
	Chloroform	EFA-6010	<25	ug/kg	BW-B	09/02/98
_	1,2-Dichloroethane	EFA-3010	<25	ug/kg	BW-B	09/02/98
	1,1,1-Trichloroethane	EFA-8010	<25	ug/kg	BW-B	09/02/98
-	Carbon Tetrachloride	EPA-8010	<25	ug/kg	BW-B	09/02/98
	Bromo dichloromethane	EPA-8010	<25	ug/kg	BM-B	09/02/98
-	1,2-Dichloropropane	EPA-8010	<25	ug/kg	BW-B	09/02/98
-	trans-1,3-Dichloropropene	EPA-8010	<25	ug/kg	BM-B	09/02/98
-	Trichloroethene	EPA-8010	<25	ug/kg	BW-B	09/02/98
-	Dibromochloromethane	EPA-8010	<25	ug/kg	BW-B	09/02/98
	1,1,2-Trichloroethane	EFA-8010	<25	ug/kg	BW-B	09/02/98

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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-ASW	-Soil 3	Da	-	received: 08	
AES sample #: 980828AC20	Samples taken by: MATRIX: Soil	J.P.Blaum		ation: Korka posite	y, Inc.
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METTHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
<pre>cis-1,3-Dichloropropene</pre>	EPA-8010	<25	ug/kg	BW-B	09/02/98
<ul> <li>2-Chloroethyl vinyl ether</li> </ul>	EPA-8010	<25	ug/kg	BW-B	09/02/98
Bromoform	EPA-8010	<25	ug/kg	BW-B	09/02/98
1,1,2,2-Tetrachloroethane	EPA-8010	<25	ug/kg	BW-B	09/02/98
Tetrachloroethene	EPA-8010	<25	ug/kg	BW-B	09/02/98
Chlorobenzene	EPA-8010	<25	ug/kg	BW-B	09/02/98
1,2-Dichlorobenzene	EPA-8010	<25	ug/kg	BW-B	09/02/98
1 3-Dichlorobenzene	EPA-8010	<25	ug/kg	BW-B	09/02/98
1,4-Dichlorobenzene	EPA-2010	<25	ug/kg	BW-B	09/02/98
Benzene	EFA-8020	<25	ug/kg	BW-B	09/02/98
Toluene	EPA-8020	<25	ug/kg	BW-B	09/02/93
Ethylbenzene	EFA-8020	<25	ug/kg	BW-B	09/02/98
Chlorobenzene	EPA-3020	<25	ug/kg	BW-B	09/02/98
<ul> <li>p-Dichlorobenzene</li> </ul>	EPA-8020	<25	ug/kg	BW-B	09/02/98
m-Dichlorobenzene	EPA-8020	<25	ug/kg	BW-B	09/02/98
-Dichlorobenzene	EPA-8020	<25	ug/kg	BW-B	09/02/98
Xylenes	EPA-8020	<25	ug/xg	BW-B	09/02/98



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-ASW AES sample #: 980828AC21		Da	Ĺoc	received: 08	/28/98 /28/98 y, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
Bromomethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
Dichlorodifluoromethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
Vinyl Chloride	EPA-8010	<100	ug/kg	BW-E	09/04/93
Chloroethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
Methylene Chloride	EPA-8010	<100	ug/kg	BW-B	09/04/98
Trichloroflouromethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
1.1-Dichloroethene	EPA-3010	<100	ug/kg	BW-B	09/04/98
1,1-Dichloroethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
Total 1,2 Dichloroethene	EPA-8010	<100	ug/kg	BW-E	09/04/98
Chloroform	EFA-6010	<100	ug/kg	BW-B	09/04/98
1,2-Dichloroethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
1,1,1-Trichloroethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
Carbon Tetrachloride	EFA-8010	<100	ug/kg	BW-B	09/04/98
Bromo dichloromethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
1,2-Dichloropropane	EPA-8010	<100	ug/kg	BW-B	09/04/98
trans-1,3-Dichloropropene	EPA-8010	<100	ug/kg	BW-B	09/04/98
Trichloroethene	EPA-3010	<100	ug/kg	BW-B	09/04/98
Dibromochloromethane	EPA-8010	<100	ug/kg	BW-B	09/04/98
1,1,2-Trichloroethane	EPA-8010	<100	ug/kg	BW-E	09/04/98



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CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW-			te Sample	d: 08 received: 08	/28/98
AES sample #: 980828AC21	Samples taken by: MATRIX: Soil		Loc		y, Inc.
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
cis-1,3-Dichloropropene	EFA-8010	<100	ug/kg	BW-B	09/04/98
2-Chloroethyl vinyl ether	EPA-8010	<100	ug/kg	BW-B	09/04/98
Bromoform	EPA-3010	<100	ug/kg	BW-B	09/04/98
1,1,2,2-Tetrachloroethane	EFA-3010	<100	ug/kg	BW-B	09/04/98
Tetrachloroethene	EFA-3010	<100	ug/kg	BW-B	09/04/98
Chlorobenzene	EPA-8010	<100	ug/kg	BW-B	09/04/98
1,2-Dichlorobenzene	EPA-3010	<100	ug/kg	BW-B	09/04/98
1.3-Dichlorobenzene	EPA-8010	<100	ug/kg	BW-B	09/04/98
1,4-Dichlorobenzene	EFA-3010	<100	ug/kg	BW-B	09/04/98
Benzene	EPA-8020	<100	ug/kg	BW-B	09/04/98
Toluene	EPA-8020	<100	ug/kg	BW-B	09/04/98
Ethylbenzene	EPA-8020	320	ug/kg	BW-B	09/04/98
Chlorobenzene	EPA-8020	<100	ug/kg	BW-B	69/04/98
p-Dichlorobenzene	EPA-8020	<100	ug/kg	BW-B	09/04/98
m-Dichlorobenzene	EPA-3020	<100	ug/kg	BW-B	09/04/98
o-Dichlorobenzene	EFA-8020	<100	ug/kg	BW-B	09/04/98
Xylenes	EFA-8020	640	ug/kg	BW-E	09/04/98



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	V-Soil 5	Da	-	received: 08	
AES sample #: 980823AC22	Samples taken by: MATRIX: Soil	J.F.Diataa		ation: Korka posite	y, Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromomethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Dichlorodifluoromethane	EFA-8010	<500	ug/kg	BW-D	09/01/98
Vinyl Chloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Chloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Methylene Chloride	EPA-8010	<500	ug/kg	EW-D	09/01/98
Trichloroflouromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1.1-Dichloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Total 1,2 Dichloroethene	EPA-8010	1800	ug/kg	BW-D	09/01/98
Chloroform	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
Carbon Tetrachloride	EPA-8010	<500	ug/kg	BW-D	09/01/98
Bromo dichloromethane	EPA-8010	<500	ug/kg	BW-D	09/01/98
1,2-Dichloropropane	EPA-8010	<500	ug/kg	BW-D	09/01/98
trans-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-D	09/01/98
Trichloroethene	EPA-8010	<500	ug/kg	BW-D	09/01/98
Dibromochloromethane	EPA-8010	<500	ug/kg	B₩-D	09/01/98
1,1,2-Trichloroethane	EPA-8010	<500	ug/kg	BW-D	09/01/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW-		Date Sampled: 08/28/98 Date sample received: 08/28/98					
-	AES sample #: 980828AC22	Samples taken by: MATRIX: Soil		Loc		y, Inc.		
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE		
	cis-1,3-Dichloropropene	EPA-3010	<500	ug/kg	EW-D	09/01/98		
-	2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-D	09/01/98		
	Bromoform	EPA-8010	<500	ug/kg	BW-D	09/01/98		
-	1,1,2,2-Tetrachloroethane	EFA-8010	<500	ug/kg	BW-D	09/01/98		
	Tetrachloroethene	EFA-3010	<500	ug/kg	BW-D	09/01/98		
	Chlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98		
-	1,2-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98		
	1.3-Dichlorobenzene	EFA-8010	<500	ug/kg	BW-D	09/01/98		
-	1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-D	09/01/98		
	Benzene	EFA-8020	<500	ug/kg	BW-D	09/01/98		
	Toluene	EFA-8020	500	ug/kg	BW-D	09/01/98		
_	Ethylbenzene	EPA-8020	990	ug/kg	BW-D	09/01/98		
	Chlorobenzene	EPA-8020	<500	ug/kg	EW-D	09/01/98		
-	p-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-D	09/01/98		
	m-Dichlorobenzene	EFA-3020	<500	ug/kg	BW-D	09/01/98		
-	o-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-D	09/01/98		
	Xylenes	EPA-8020	7700	ug/kg	BW-D	09/01/98		



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CLIENT: Camp Dresser & McK CLIENT'S SAMPLE ID: CDM-VE	Date Sampled: 08/28/98 Date sample received: 08/23/98					
AES sample #: 980828AC23	Samples taken by: MATRIX: Soil	J.P.Blaum		ation: Korka posite	ly, Inc.	
PARAMETER PERFORMED	<u>HETHOD</u>	RESULT	UNITS	NOTEBK REF	TEST DATE	
Chloromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
Bromomethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
Dichlorodifluoromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
Vinyl Chloride	EPA-3010	<500	ug/kg	EW-E	09/02/98	
Chloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
Methylene Chloride	EPA-3010	<500	ug/kg	BW-B	09/02/98	
Trichloroflouromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
1.1-Dichloroethene	EFA-8010	<500	ug/kg	BW-B	09/02/98	
1,1-Dichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
Total 1,2 Dichloroethene	EFA-3010	<500	ug/kg	BW-B	09/02/98	
Chloroform	EPA-8010	<500	ug/kg	BW-B	09/02/98	
1,2-Dichloroethane	EPA-3010	<500	ug/kg	BM-B	09/02/98	
1,1,1-Trichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
Carbon Tetrachloride	EFA-8010	<500	ug/kg	BW-B	09/02/98	
Bromo dichloromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
1,2-Dichloropropane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
trans-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
Trichloroethene	EFA-8010	<500	ug/kg	BM-E	09/02/98	
Dibromochloromethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
1,1,2-Trichloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 980828AC23	Date Sampled: 08/28/98 Date sample received: 08/28/98 J.P.Blaum Location: Korkay, Inc. composite					
	continued: PARAMETER PERFORMED	MATRIX: Soil <u>METHOD</u>	RESULT	<u>UNITS</u>	<u>NOTEBK REF</u>	<u>TEST DATE</u>	
	cis-1,3-Dichloropropene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
-	2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-B	09/02/98	
	Bromoform	EPA-3010	<500	ug/kg	BW-B	09/02/98	
-	1,1,2,2-Tetrachloroethane	EPA-8010	<500	ug/kg	BW-B	09/02/98	
	Tetrachloroethene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
	Chlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
-	1,2-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
	1.3-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/02/98	
-	1,4-Dichlorobenzene	EFA-3010	<500	ug/kg	BW-B	09/02/98	
	Benzene	EPA-8020	<500	ug/kg	BW-B	09/02/98	
-	Toluene	EPA-8020	<500	ug/kg	BW-B	09/02/98	
_	Ethylbenzene	EPA-8020	1900	ug/kg	BW-B	09/02/98	
-	Chlorobenzene	EPA-8020	<500	ug/kg	EW-B	09/02/98	
-	p-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-B	09/02/98	
	m-Dichlorobenzene	EPA-8020	<500	ug/kg	BM-B	09/02/98	
-	o-Dichlorobenzene	EFA-3020	<500	ug/kg	BW-B	09/02/98	
	Xylenes	EPA-8020	5400	ug/kg	BW-E	09/02/98	



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980826AC24	Date Sampled: C8/28/98 Date sample received: O8/28/98 J.P.Blaum Location: Korkay, Inc. composite					
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	<u>UNITS</u>	NOTEBK REF	TEST DATE	
cis-1,3-Dichloropropene	EFA-8010	<500	ug/kg	BM-B	09/04/98	
2-Chloroethyl vinyl ether	EPA-8010	<500	ug/kg	BW-B	09/04/98	
Bromoform	EPA-8010	<500	ug/kg	BW-B	09/04/98	
1,1,2,2-Tetrachloroethane	EFA-8010	<500	ug/kg	BW-B	09/04/98	
Tetrachloroethene	EFA-8010	<500	ug/kg	BW-B	09/04/98	
Chlorobenzene	EFA-8010	<500	ug/kg	BW-B	09/04/98	
1,2-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/04/98	
<sup>1</sup> 3-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/04/98	
1,4-Dichlorobenzene	EPA-8010	<500	ug/kg	BW-B	09/04/98	
Benzene	EPA-8020	<500	ug/kg	BW-B	09/04/98	
Toluene	EFA-3020	2200	ug/kg	BW-B	09/04/98	
Ethylbenzene	EFA-8020	7300	ug/kg	BW-B	09/04/98	
Chlorobenzene	EPA-3020	<500	ug/kg	BW-B	09/04/98	
p-Dichlorobenzene	EPA-8020	<500	ug/kg	BW~B	09/04/98	
m-Dichlorobenzene	EPA-8020	<500	ug/kg	BW-E	09/04/98	
o-Dichlorobenzene	EFA-8020	<500	ug/kg	BW-B	09/04/98	
Xylenes	EPA-8020	25,000	ug/kg	BW-B	09/04/98	



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-TB1 AES sample #: 980828AC25	e Samples taken by: MATRIX: Water	Da	-	received: 08 ation: Korka	/28/98 /28/98 y, Inc.
PARAMETER PERFORMED	METHOD	REGULT	<u>UNITS</u>	NOTEBK REF	TEST DATE
Chloromethane	EPA-601	<1	ug/l	BW-D	08/31/98
Bromomethane	EPA-601	<1	ug/l	EW-D	08/31/98
Dichlorodifluoromethane	EPA-601	<1	ug/l	BW-D	08/31/98
Vinyl Chloride	EFA-601	<1	ug/l	BW-D	08/31/98
Chloroethane	EPA-601	<1	ug/l	BW-D	08/31/98
Methylene Chloride	EPA-601	<1	ug/l	BW-D	08/31/93
Trichloroflouromethane	EPA-601	<1	ug/l	BW-D	08/31/98
1-1-Dichloroethene	EPA-601	<1	ug/l	BW-D	08/31/98
1,1-Dichloroethane	EPA-601	<1	ug/1	BW-D	08/31/98
Total 1,2 Dichloroethene	EPA-601	<1	ug/l	BW-D	08/31/98
Chloroform	EPA-601	<1	ug/l	BW-D	08/31/98
1,2-Dichloroethane	EPA-601	<1	ug/l	BW-D	08/31/98
- 1,1,1-Trichloroethane	EPA-601	<1	ug/l	BW-D	08/31/98
<ul> <li>Carbon Tetrachloride</li> </ul>	EPA-601	<1	ug/1	BW-D	08/31/98
Bromo dichloromethane	EPA-601	<1	ug/l	BW-D	08/31/98
1,2-Dichloropropane	EPA-601	<1	ug/l	BW-D	08/31/98
trans-1,3-Dichloropropene	EPA-601	<1	ug/l	BW-D	08/31/98
Trichloroethene	EPA-601	<1	ug/l	BW-D	08/31/98
Dibromochloromethane	EPA-601	<1	ug/l	BW-D	08/31/98
1,1,2-Trichloroethane	EPA-601	<1	ug/l	BW-D	08/31/98



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	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-TB1 AES sample #: 980328AC25	Samples taken by: MATRIX: Water	Dat	-	received: 08 tion: Korka	<pre>The second second</pre>		
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE		
*	cis-1,3-Dichloropropene	EPA-601	<1	ug/l	BW-D	08/31/98		
-	2-Chloroethyl vinyl ether	EPA-601	<1	ug/l	BW-D	08/31/98		
	Bromoform	EPA-601	<1	ug/l	BM-D	08/31/98		
-	1,1,2,2-Tetrachloroethane	EPA-601	<1	ug/l	BW-D	08/31/98		
	Tetrachloroethene	EPA-601	<1	ug/l	EW-D	08/31/98		
	Chlorobenzene	EPA-601	<1	ug/l	BW-D	08/31/98		
-	1,2-Dichlorobenzene	EPA-601	<1	ug/l	BW-D	08/31/98		
	1.3-Dichlorobenzene	EPA-601	<1	ug/l	BW-D	08/31/98		
-	1,4-Dichlorobenzene	EPA-601	<1	ug/l	BW-D	08/31/98		
	Benzene	EPA-602	<1	ug/l	BW~D	08/31/98		
	Toluene	EPA-602	<1	ug/l	BW-D	08/31/98		
-	Ethylbenzene	EPA-602	<1	ug/l	BW-D	08/31/98		
-	Chlorobenzene	EPA-602	<1	ug/l	EW-D	08/31/98		
-	p-Dichlorobenzene	EPA-602	<1	ug/l	BW-D	08/31/98		
	m-Dichlorobenzene	EPA-602	<1	ug/l	BW-D	08/31/98		
-	o-Dichlorobenzene	EPA-602	<1	ug/l	BW-D	08/31/98		
	Xylenes	EFA-602	<1	ug/l	BW-D	08/31/98		



Report date: 09/14/98



1072

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CLIENT NAME		PROJECT NAME (Lo		·	SAMPLE	RS:	(Names)			
CDM	<u></u>	Korkay		34		_	h	Ģ	P. la	ium
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Albang	12705			<u> </u>			xp	10	PR	han
AES SAMPLE NUMBER	·	CLIENT FICATION & LOCATION	S	DATE	TIME A=a.m P=p.m	í. †	SAMPLE			ANALYSIS REQUIRED
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ACO2	CDM-VEU	12-5014	z	- <u>-</u>	9:10	P		X	1	
A(03	CDM - UE	-WZ-SOIL	3		9:15	P	>	X		0 0;
Acoy	CDH - VE	W2-5012	4		9/20	A P		X		~ ~
ACOS	CDM-VE	WZ-SOK	5	<u> </u>	9/25	P	>	<u>x</u>	1	
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AC07	CDM-UE	W3-5016	2	94:		P	·	$\times$	1	C C C C
ACO8	CDM-11E	W3-SOIL	3	950		<u>А</u> Р		У	1	C h
ACOG	EDM-VE	W3-501L	4	95	30	P	2	X	1	180
ACIO	CDM-VE	W 3 - 5012	.5	190,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	P		<u> </u>		
ACII	CAM-VE	WI-SOLL	_/		1015	<u>р</u>		<u>У</u>	/	
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AC13	CDM-UEU	11-501L	2	J.	025	A P	ý v	Å	/	
Turnaround Time					Labo	ra	tory A	ppro	ovai:	· · · · · · · · · · · · · · · · · · ·
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Method of Shipme		S	end Repo	ort To:		4-	A		1	Cilent Phone No 402-300

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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Adirondack Environmental Services, Inc.

PINK - Generator Copy



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CLIENT NAME		PROJECT NAME (Locat	·		SAMPL	.ERS	(Names)	)			<del>,</del>	
CDM		Kolkoy: Broadal PONUMBER	LAC	N4		T J	- / 1	ρ	Blo	91-		
ADDRESS	-	PO NUMBER		<u></u>	SAMPL	ERS	: (Signatu		0	1		
_ A / Dany	12205	L			Ţ	E E	SAMPLE		NUMBER	<u> </u>		<u></u>
AES SAMPLE NUMBER		LIENT ICATION & LOCATION	s	DATE	Á≓a.ı P=p.ı		MATRIX		OF CONT'S	AN	ALYSIS REC	UIRED
980828 ACIY	CDM-UF	N1-5016	4 8/	28/98	630	A P	Soil	$\times$	1	8	510,	180z
ACIS	CDM-VEO	v1-Soils	-	[	′°35	ГАС Р	_ [	×	1		ľ	
Ac16	CDM-VEU	14-50122			145	A P		X	1			0 2
	KNU-UFU				1050	A P		X	1			2
	CDM-VEO				1055	A P		Y	1		] :	F O F
	CDM-VEN				1140	P		X	1		1	XN.
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iA cou	CDM-ASU	1			120	A P		У	1			1 1
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Method of Shipm		Sen	d Repo	ort To:	<b>`</b>	<del>.</del>	-/	<u> </u>	$\mathbf{T}$	1		one No.:
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The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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YELLOW - Sampler Copy

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CLIENT: Camp Dresser & McK CLIENT'S SAMPLE ID: CDM-AS AES sample #: 990217 VO1 continued:	W-03 Samples taken by	D		received: 02 ation: Korka	2/17/99 2/17/99 Ny Inc.
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
cis-1,3-Dichloropropene	EPA-601	<50	ug/1	KS-B	02/19/99
2-Chloroethylvinylether	EPA-501	<50	ug/l	KS-B	02/19/99
Bromoform	EPA-601	<50	ug/l	KS-B	02/19/99
1,1,2,2-Tetrachloroethane	EPA-601	<50	ug/l	KS-B	02/19/99
Tetrachloroethylene	EPA-601	<50	ug/l	KS-B	02/19/99
Benzene	EPA-602	<25	ug/1	KS-B	02/19/99
oluene	EPA-602	130	ug/l	KS-B	02/19/99
Ithylbenzene	EPA-602	360	ug/l	KS-B	02/19/99
lorobenzene	EFA-602	<50	ug/l	KS-B	02/19/99
,4-Dichlorobenzene	EPA-602	<50	ug/1	XS-B	02/19/99
,3-Dichlorobenzene	EFA-602	<50	ug/l	KS-E	02/19/99
,2-Dichlorobenzene	EPA-602	<50	ug/l	KS-B	02/19/99
ylenes, Total	EPA-602	2200	ug/1	KS-B	02/19/99



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CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-CARP AES sample #: 990217 V02		Date Sampled: 02/17/99 Date sample received: 02/17/99 aum Location: Korkay Inc.				
•	MATRIX: Groun	d Water	gra	b		
FARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	<u>test</u> date	
Chloromethane	EPA-601	<1	ug/l	KS-B	02/19/99	
Bromomethane	EPA-601	<1	ug/l	K8-B	02/19/99	
Dichlorodifluoromethane	EPA-601	<1	ug/1	XS-B	02/19/99	
<ul> <li>Vinyl Chloride</li> </ul>	EPA-601	<1	ug/l	KS-E	02/19/99	
Chloroethane	EPA-601	<1	ug/l	KS-B	02/19/99	
Methylene Chloride	EPA-601	<1	ug/1	KS-E	02/19/99	
Trichlorofluoromethane	EPA-601	<1	ug/l	KS-E	02/19/99	
1,1-Dichloroethene	EPA-601	<1	ug/1	KS-B	02/19/99	
.,1-Dichloroethane	EPA-601	<1	ug/l	KS-B	02/19/99	
Total 1,2 Dichloroethene	EPA-601	<1	ug/l	KS-B	02/19/99	
Chloroform	EPA-601	<1	ug/l	KS-E	02/19/99	
1,2 Dickloroethane	EFA-601	<1	ug/l	KS-B	02/19/99	
1,1,1-Trichloroethane	EPA-601	<1	ug/l	KS-B	02/19/99	
🕳 Carbon Tetrachloride	EPA-601	<1	ug/l	KS-E	02/19/99	
Bromodichloromethane	EPA-601	<1	ug/l	KS-B	02/19/99	
1,2-Dichloropropane	EFA-601	<1	ug/l	8-6X	02/19/99	
t-1,3-Dichloropropene	EPA-601	<1	ug/l	KS-B	02/19/99	
Trichloroethylene	EPA-601	<1	ug/l	K3-B	02/19/99	
Dibromochloromethane	EPA-501	<1	ug/l	KS-B	02/19/99	
1,1,2-Trichloroethane	EPA-601	<1	ug/l	KS-B	02/19/99	



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-CAP AES sample #: 990217 VO2	WE EFF-02 Samples taken by	Da	•	received: 02 ation: Korka	2/17/99 2/17/99 Ny Inc.
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	<u>test</u> date
cis-1,3-Dichloropropene	EPA-601	<1	ug/1	KS-B	02/19/99
2-Chloroethylvinylether	EPA-501	<1	ug/l	KS-B	02/19/99
Bromoform	EPA-601	<1	ug/l	KS-B	02/19/99
1,1,2,2-Tetrachloroethane	EPA-601	<1	ug/l	KS-B	02/19/99
Tetrachloroethylene	EPA-601	<1	ug/1	KS-B	02/19/99
Benzene	EPA-602	<0.5	ug/l	KS-B	02/19/99
Toluene	EFA-602	<1	ug/l	KS-B	02/19/99
Ethylbenzene	EFA-602	<1	ug/l	KS-B	02/19/99
Morobenzene	EPA-602	<1	ug/l	KS-B	02/19/99
1,4-Dichlorobenzene	EPA-602	<1	ug/l	KS-B	02/19/99
1,3-Dichlorobenzene	EPA-602	<1	ug/l	KS-B	02/19/99
1,2-Dichlorobenzene	EPA-602	<1	ug/l	KS-B	02/19/99
Kylenes, Total	EPA-602	<1	ug/l	KS-B	02/19/99

Tara APPROVED STT

Report date: 03/01/99



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		PROJECT NAM				S: (Names)			<u></u>		
CDM ADDRESS / Marcu		KOVK	ay .	LAC	John Bloon						
ADDRESS   Marcu Albany	NYIZZOS	PONUMBER	/		SAMPLER	S: (Signatu		16	t		
AES SAMPLE NUMBER	-	LIENT	TION	DATE SAMPLED	TIME∕ A≠a:m, P∈p.m.	SAMPLE MATRIX	T A T			NALYSIS RE	QUIRED
90217 VO	CDM-ASW	-03		2/17/99	NOO P	ĠŴ		02	EPA	1601	9602
V02	DM -CARB	EFT - c	2	2/17/99	1005 A	GW	ł			V	
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			Red	ceived by: (sig	gnature)					Date	 /Time
			Rec	Received by: (Signature) Date/			/Time				
ispatched by: (si)	gnature)	Da	te/Tim	e Recei	ved for	Labor	ator	y by:		Date	/Time 1/   1/ -
ethod of Shipm	ent:		Send	Report To:		1		<u></u>			none No.:

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APR 0 9 1999

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LEORATORY REPORT

for

Camp Dresser & NoKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Attention: John Elaum

Report date: 04/08/99 Number of campler analyted: 2 NEG Project ID: 090001 X Liveles #: 198640

EINE ID#: 10709

NINN ID#: 7866 Dege 1



# 314 North Pearl Street - Albany, New York 12207 - 800-848-4983 - (518) 434-4546 - Fax (518) 434-0891

CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-ASM AES sample %: 990301 M01	1-05 Samples taken by	Da		ereceived: 03 ation: Morks	
PARAITTER FERFORIED	1 <u>0011100</u>		<u>URITE</u>	NOTEEN REE	
Chloromethane	EPA-601	<50	ug/1	NS-E	04/05/00
Eromomethane	IPA-601	SEC.			04/05/09
Dichloredifluoromethane	EFA-601	<50	ug/1	KB-E	04/05/99
Vinyl Chloride	EPA-601	<50		12-3	04/05/99
Chloroethane	EPA-601	<50	ug/1	KS-E	04/05/99
Methylene Chloride	ZPA-601	<50	ug/l	XS-E	C4/CE/99
Trichlorofluoromethane	EPA-601	<50	ug/1	XS-B	04/05/99
1,1-Dichlorsethene	EFR-601	<50	ug/1	X3-3	0∉/05/99
1,1-Dichlorsethane	EFA-601	<50	ug/1	XS-3	04/03/99
Total 1,2 Dichlorpethene	EPA-601	490	ug/l	777 - E	04/05/99
Chloroform	<u>273</u> -601	<50	ug/1	KS-B	04/05/99
1,2 Dichlerosthane	EFA-601	<50	ug/1	100-D	06/05/99
1,1,1-Trichloroethane	IIPA-601	<50	wg/l	KS-E	04/05/99
Carbon Tetrachloride	EPR-501	<50	~ <u>~</u> ;/]	X2-2	04/05/03
Eromodichloromethane	27R-501	<50	03/1	<u>20-2</u>	04/05/99
1,2-Dichleropropane	EP3-601	:5C	·····/·	NC -E	04/05/99
t-1,0-Dichloropropene	EPA-601	≪50	ug/1	KS-B	04/05/99
Trichloroethylana	<u> 227</u> -601	<50		XC-E	C4/05/99
Dibromochloromethane	III601	<u>150</u>	ug/1	XS-E	04/05/99
1,1,2-Trichloroethane	EFA-601	<u>.50</u>		70-E	C\$/05/99

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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-ASM AES sample #: 990001 K01	1-05	D.		f: received: Ci ation: Morks	:/c1/95 :/31/09
AES sample #: 990001 KO1	MTRII: Ground	: J. Eloum Nater	gra		·
continued: <u>PARA EVER</u> <u>PERFONED</u>	<u>1ETHOD</u>	REGULT		<u>NOTEEK REF</u>	<u></u>
pip-1,3-Dichleropropene	EPA-601	<50	ug/1	<u> 26-5</u>	04/CE/09
2-Chlorosthylvinylether	EPA-601	<5C		<u>X2-</u> 7	୦୯,/୦୭/୦୨
Bromoform	EPA-601	<50	ug/1	112-E	04/05/22
1,1,2,2-Tetrachloroethane	프파리- 901	:50	ug/1	<u> 10 - 2</u>	04/05/99
Tetrachlorcethylene	E2A-601	<50	-3/-	XC -E	04/03/99
Benzene	EPR+602	<25	ug/1	KE-E	04/05/99
Toluene	EFA-602	100	ug/l	XS~E	04/05/99
Ethylbenzene	EPA-602	320	ug/1	XS-E	04/05/99
Chlorobenzene	EFA-602	<50	ug/1	<u> </u>	C4/C5/99
1,4-Dichlorobenzene	EFA-602	<50	ug/1	KS-B	04/05/99
1,3-Dichlerobenzane	ZPR-600	<50	ug/1	XC -E	C4/C5/99
1,2-Dichlorobenzene	EFA-SO2	<50	ug/1	XG-E	04/05/99
Mylenes, Total	EPA-602	2000	····	XC IE	01/0E/99

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CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-CARE	ם. ים	ate Sangli ate sample	C: 00 received: 00	00/31/99 Ved: 00/01/09	
AIS sample #: 990301 MC2	Samples taken by MATRIN: Cround		Loo gra	j. Inc.	
PARNITTER PERFORNED		REGULT		NOTTER REF	
Chloromethane	EDA-601	<u>.</u>	og/1	ME-E	01,105, <b>1</b> 95
Eromomethale	EFR-601		::s/1		04,/05,/95
Dichlorodifluoromethane	EPA-601		ug/l	KE-E	04/05/05
Vinyl Chloride	<u>EFA-601</u>		ug/1		C4,/C5,/C2
Chlorcethane	EPA-601	<1	ug/l	12 -3	04/05/99
Methylene Chloride	IFA-601	2	ug/l		06/05/99
Trichlorofluoromethane	EPA-601	<1	ug/l	XS-3	04/05/99
1,1-Dichlorosthene	<u>377</u> -601	<1	ug/1	KG-B	04/05/29
 1,1-Dichloroethane	EFA-601	<1	ug/l	XG-B	04/05/99
Total 1,2 Dichloroethene	<u>378</u> -601	<1		X2E	04/05/99
Chloroform	ETR-601	<1		XS-B	04/03,/99
1,2 Dichlorcethane	EFA-601			X2-E	04/05/22
1,1,1-Trichleroethane	EPA-601	<	ug/l	X2-2	04/05/09
Carbon Tetrachloride	EFA-601	-1	ug/1	KC -E	04/05/09
Eromodichlorumethane	EFR- 501	-	~=/-	<u>10-1</u>	04/05/99
1,2-Dichloropropane	<u> </u>		ug/1	77C-E	00/05/00
N-1,0-Dichleropropene	EPA-601	<1	ug/1	XC -E	01/05/99
Trichloresthylene	TER 1-601	2 <u>1</u>	·····/·	XC-2	04/05/92
Dibromochicromethane	EPA-601			NS-B	04/05/99
1,1,2-Trichlorpethane	E72-601		- 11-		24/05/00



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CLIEFT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-CAR AES sample #: 990331 M02	D D J. Elaum Vater	Date Camplad. 00/01/00 Date comple podeived. 00/01/00 m Location: Morkay Inc. grab				
continuad: <u>PARNITTER FERGONIED</u>		RESULT		NOTEEK REF	<u></u>	
			<u> </u>		<u></u> <u></u>	
dia 1,0-Dichlerepropene	EPA-SC1	< <u>1</u>	<u></u> /1		01/05/99	
2-Chloreethylvinylether	IPR-501				04/05/09	
Erovoform	EPA-601	<1	/ - 		C€,′CE,′9C	
1,1,2,2-Tetrachloroethane	EFA-601	<1	ug/1	X5-3	04/05/90	
Tetrachloroethylene	EPR-601	4 <u>1</u>		X0-E	04/05/99	
Eenzene	EFA-602	<0.5	ug/1	X2-3	04/03/99	
Toluene	EPA-602	<u>.</u>	ug/1	XS-E	C4/05/09	
Ethylbenzene	IIIA-502	<1	ug/1	X3-3	04/05/99	
Chlorobenzene	EFA-602	<u>2</u>	ug/1	XS-E	C4/05/93	
1,4-Dichlorobenzene	IFR-602	<1	ug/1	X2-2	04/05/99	
1,3-Dichlarobenzene	EP7-602	<u>-1</u>	<u></u> /1	<u> 12 - 1</u>	04/05/09	
1,2-Dicklorobenzene	EPA-602	<-	ug/l	XS-B	04/03/99	
Mylenes, Total	EPA-602	<1	23/1	N2-2	01/05/90	

ara 27: Report date: 06/02/20

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	A full service analy	tical researci	h laboratory	offering	solutions	to e	environmental	concerns
CHAIN OF	CUSTODY	RECOF	RD					

CLIENT NAME		PROJECT NAME (L	ocation)			IS: (Names)				
ADDRESS , M JVT U		Korlian	1 In C		-	504	r 1	B/.	aun	
	5 BIND NY12244	PONUMBER			SAMPLER	IS: (Signatu	ire)	B		<u> </u>
AES SAMPLE NUMBER	c	CLIENT FICATION & LOCATIO	IN S	DATE	TIME A≕a.m. P≃p.m.		E TYPE	NUMBER		
990331 KOI	EDM-ASW	-05	3/3	1/99	SSJ P				601.46	02
Ko2	CDM - CAR	BEFF -04		1/99		50		2	601.46 N	
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Relinquished by: (Signature)			Received	by: (si	gnature)		<u>-</u> ,		Date/	Time
Relinquished by: (Signature) Dispatched by: (Signature) Dat			Received	by: (si	gnature)				Date/	Time
			/Time	Rece	ived for Laboratory, by:				/ Date/ 3/3//99	
Method of Shipme	nt:	s	Send Repo	rt To:	11th	n	$\geq$		Client Ph	والمستحد المستحد المست

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# OCT 0 4 1999

LABORATORY REPORT

for

Camp Dresser & McKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Attention: John Blaum

Report date: 10/01/99 Number of samples analyzed: 5 AES Project ID: 990924 W Invoice #: 204884

ELAP ID#: 10709

AIHA ID#: 7866 Page 1



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-	-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1-02				Date Sampled: 09/24/99 Date sample received: 09/24/99				
-	AES sample #: 990924 WO1	Samples taken by: MATRIX: Ground	J. Blaum		ation: Kork					
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE				
	Chloromethane	EPA-601	<100	ug/l	SO-B	09/27/99				
-	Bromomethane	EPA-601	<100	ug/l	SO-B	09/27/99				
—	Dichlorodifluoromethane	EPA-601	<100	ug/l	SO-B	09/27/99				
	Vinyl Chloride	EPA-601	<100	ug/l	SO-B	09/27/99				
	Chloroethane	EPA-601	<100	ug/l	SO-B	09/27/99				
	Methylene Chloride	EPA-601	<100	ug/l	SO-B	09/27/99				
_	Trichlorofluoromethane	EPA-601	<100	ug/l	SO-B	09/27/99				
-	1,1-Dichloroethene	EPA-601	<100	ug/l	SO-B	09/27/99				
-	,1-Dichloroethane	EPA-601	<100	ug/l	SO-B	09/27/99				
	Total 1,2 Dichloroethene	EPA-601	590	ug/l	SO-B	09/27/99				
	Chloroform	EPA-601	<100	ug/l	SO-B	09/27/99				
_	1,2 Dichloroethane	EPA-601	<100	ug/l	SO-B	09/27/99				
	1,1,1-Trichloroethane	EPA-601	<100	ug/l	SO-B	09/27/99				
-	Carbon Tetrachloride	EPA-601	<100	ug/l	SO-B	09/27/99				
	Bromodichloromethane	EPA-601	<100	ug/l	SO-B	09/27/99				
	1,2-Dichloropropane	EPA-601	<100	ug/l	SO-B	09/27/99				
	t-1,3-Dichloropropene	EPA-601	<100	ug/l	SO-B	09/27/99				
	Trichloroethylene	EPA-601	170	ug/l	SO-B	09/27/99				
4	Dibromochloromethane	EPA-601	<100	ug/l	SO-B	09/27/99				
	1,1,2-Trichloroethane	EPA-601	<100	ug/l	SO-B	09/27/99				



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1 AES sample #: 990924 W01	Date Sampled: 09/24/99 Date sample received: 09/24/99 J. Blaum Location: Kork. Inc. ater grab				
	continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	cis-1,3-Dichloropropene	EPA-601	<100	ug/l	SO-B	09/27/99
-	2-Chloroethylvinylether	EPA-601	<100	ug/l	SO-B	09/27/99
_	Bromoform	EPA-601	<100	ug/l	SO-B	09/27/99
-	1,1,2,2-Tetrachloroethane	EPA-601	<100	ug/l	SO-B	09/27/99
	Tetrachloroethylene	EPA-601	<100	ug/l	SO-B	09/27/99
	Benzene	EPA-602	<50	ug/l	SO-B	09/27/99
-	Toluene	EPA-602	<100	ug/l	SO-B	09/27/99
-	Ethylbenzene	EPA-602	<100	ug/l	SO-B	09/27/99
	hlorobenzene	EPA-602	<100	ug/I	SO-B	09/27/99
	1,4-Dichlorobenzene	EPA-602	<100	ug/l	SO-B	09/27/99
-	1,3-Dichlorobenzene	EPA-602	<100	ug/l	SO-B	09/27/99
	1,2-Dichlorobenzene	EPA-602	<100	ug/l	SO-B	09/27/99
-	Xylenes, Total	EPA-602	340	ug/l	SO-B	09/27/99



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CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 990924 WO2		Da r: J. Blaum	-	received: 09 ation: Kork.	
PARAMETTER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-601	<1	ug/l	SO-B	09/28/99
Bromomethane	EPA-601	<1	ug/l	SO-B	09/28/99
Dichlorodifluoromethane	EPA-601	<1	ug/l	SO-B	09/28/99
Vinyl Chloride	EPA-601	<1	ug/l	SO-B	09/28/99
Chloroethane	EPA-601	<1	ug/l	SO-B	09/28/99
Methylene Chloride	EPA-601	<1	ug/l	SO-B	09/28/99
Trichlorofluoromethane	EPA-601	<1	ug/l	SO-B	09/28/99
1,1-Dichloroethene	EPA-601	<1	ug/l	SO-B	09/28/99
,1-Dichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99
Total 1,2 Dichloroethene	<b>EPA-</b> 601	25	ug/l	SO-B	09/28/99
Chloroform	EPA-601	<1	ug/l	SO-B	09/28/99
1,2 Dichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99
1,1,1-Trichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99
Carbon Tetrachloride	EPA-601	<1	ug/l	SO-B	09/28/99
Bromodichloromethane	EPA-601	<1	ug/l	SO-B	09/28/99
1,2-Dichloropropane	EPA-601	<1	ug/l	SO-B	09/28/99
t-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	09/28/99
Trichloroethylene	EPA-601	8	ug/l	SO-B	09/28/99
Dibromochloromethane	EPA-601	<1	ug/l	SO-B	09/28/99
1,1,2-Trichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2 AES sample #: 990924 WO2		Da : J. Blaum					
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	<u>NOTEBK</u> <u>REF</u>	TEST DATE		
-	cis-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	09/28/99		
-	2-Chloroethylvinylether	EPA-601	<1	ug/l	SO-B	09/28/99		
	Bromoform	EPA-601	<1	ug/l	SO-B	09/28/99		
-	1,1,2,2-Tetrachloroethane	<b>EPA</b> -601	<1	ug/l	SO-B	09/28/99		
	Tetrachloroethylene	<b>EPA-</b> 601	<1	ug/l	SO-B	09/28/99		
	Benzene	EPA-602	<0.5	ug/l	SO-B	09/28/99		
-	Toluene	EPA-602	<1	ug/l	SO-B	09/28/99		
	Ethylbenzene	EPA-602	<1	ug/l	SO-B	09/28/99		
-	hlorobenzene	<b>EPA-6</b> 02	1	ug/l	SO-B	09/28/99		
	1,4-Dichlorobenzene	EPA-602	1	ug/l	SO-B	09/28/99		
	1,3-Dichlorobenzene	EPA-602	<1	ug/l	SO-B	09/28/99		
	1,2-Dichlorobenzene	EPA-602	4	ug/l	SO-B	09/28/99		
	Xylenes, Total	<b>EPA-</b> 602	<1	ug/l	SO-B	09/28/99		



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ļ	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 990924 WO3								
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE			
	Chloromethane	EPA-601	<1	ug/l	SO-B	09/28/99			
-	Bromomethane	EPA-601	<1	ug/l	SO-B	09/28/99			
	Dichlorodifluoromethane	EPA-601	<1	ug/l	SO-B	09/28/99			
-	Vinyl Chloride	EPA-601	<1	ug/l	SO-B	09/28/99			
	Chloroethane	EPA-601	<1	ug/l	SO-B	09/28/99			
-	Methylene Chloride	EPA-601	<1	ug/l	SO-B	09/28/99			
-	Trichlorofluoromethane	EPA-601	<1	ug/l	SO-B	09/28/99			
	1,1-Dichloroethene	EPA-601	<1	ug/l	SO-B	09/28/99			
-	,1-Dichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99			
	Total 1,2 Dichloroethene	EPA-601	<1	ug/l	SO-B	09/28/99			
-	Chloroform	EPA-601	<1	ug/l	SO-B	09/28/99			
_	1,2 Dichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99			
-	1,1,1-Trichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99			
-	Carbon Tetrachloride	EPA-601	<1	ug/l	SO-B	09/28/99			
	Bromodichloromethane	EPA-601	<1	ug/l	SO-B	09/28/99			
-	1,2-Dichloropropane	EPA-601	<1	ug/l	SO-B	09/28/99			
	t-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	09/28/99			
	Trichloroethylene	EPA-601	<1	ug/l	SO-B	09/28/99			
-	Dibromochloromethane	EPA-601	<1	ug/l	SO-B	09/28/99			
	1,1,2-Trichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99			

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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 990924 W03	-02							
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE			
•	cis-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	09/28/99			
-	2-Chloroethylvinylether	EPA-601	<1	ug/l	SO-B	09/28/99			
	Bromoform	EPA-601	<1	ug/l	SO-B	09/28/99			
-	1,1,2,2-Tetrachloroethane	EPA-601	<1	ug/l	SO-B	09/28/99			
	Tetrachloroethylene	EPA-601	2	ug/l	SO-B	09/28/99			
-	Benzene	EPA-602	<0.5	ug/l	SO-B	09/28/99			
	Toluene	EPA-602	<1	ug/l	SO-B	09/28/99			
	Ethylbenzene	EPA-602	1	ug/l	SO-B	09/28/99			
	hlorobenzene	EPA-602	2	ug/l	SO-B	09/28/99			
	1,4-Dichlorobenzene	EPA-602	<1	ug/l	SO-B	09/28/99			
-	1,3-Dichlorobenzene	EPA-602	<1	ug/l	SO-B	09/28/99			
	1,2-Dichlorobenzene	EPA-602	3	ug/l	SO-B	09/28/99			
	Xylenes, Total	EPA-602	10	ug/l	SO-B	09/28/99			



CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 990924 WO4		Da : J. Blaum							
PARAMETER PERFORMED	METTHOD	RESULT	UNITS	NOTEBK REF	TEST DATE				
Chloromethane	EPA-601	<1	ug/l	SO-B	09/28/99				
Bromomethane	EPA-601	<1	ug/l	SO-B	09/28/99				
Dichlorodifluoromethane	EPA-601	<1	ug/l	SO-B	09/28/99				
<ul> <li>Vinyl Chloride</li> </ul>	EPA-601	<1	ug/l	SO-B	09/28/99				
Chloroethane	EPA-601	<1	ug/l	SO-B	09/28/99				
Methylene Chloride	EPA-601	<1	ug/l	SO-B	09/28/99				
Trichlorofluoromethane	EPA-601	<1	ug/l	SO-B	09/28/99				
1,1-Dichloroethene	EPA-601	<1	ug/l	SO-B	09/28/99				
,1-Dichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99				
Total 1,2 Dichloroethene	EPA-601	24	ug/l	SO-B	09/28/99				
Chloroform	EPA-601	<1	ug/l	SO-B	09/28/99				
1,2 Dichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99				
1,1,1-Trichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99				
Carbon Tetrachloride	EPA-601	<1	ug/l	SO-B	09/28/99				
Bromodichloromethane	EPA-601	<1	ug/l	SO-B	09/28/99				
1,2-Dichloropropane	EPA-601	<1	ug/l	SO-B	09/28/99				
t-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	09/28/99				
Trichloroethylene	EPA-601	6	ug/l	SO-B	09/28/99				
Dibromochloromethane	EPA-601	<1	ug/l	SO-B	09/28/99				
1,1,2-Trichloroethane	EPA-601	<1	ug/l	SO-B	09/28/99				



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW4 AES sample #: 990924 WO4	-02 Samples taken by:	Date Sampled: 09/24/99 Date sample received: 09/24/99 Dy: J. Blaum Location: Kork. Inc. nd Water grab						
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE			
-	cis-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	09/28/99			
-	2-Chloroethylvinylether	EPA-601	<1	ug/l	SO-B	09/28/99			
	Bromoform	EPA-601	<1	ug/l	SO-B	09/28/99			
-	1,1,2,2-Tetrachloroethane	EPA-601	<1	ug/l	SO-B	09/28/99			
	Tetrachloroethylene	EPA-601	2	ug/l	SO-B	09/28/99			
•	Benzene	EPA-602	<0.5	ug/l	SO-B	09/28/99			
	Toluene	EPA-602	<1	ug/l	SO-B	09/28/99			
	Ethylbenzene	EPA-602	2	ug/l	SO-B	09/28/99			
-	hlorobenzene	EPA-602	1	ug/l	SO-B	09/28/99			
	1,4-Dichlorobenzene	EPA-602	<1	ug/l	SO-B	09/28/99			
-	1,3-Dichlorobenzene	EPA-602	<1	ug/l	SO-B	09/28/99			
	1,2-Dichlorobenzene	EPA-602	18	ug/l	SO-B	09/28/99			
	Xylenes, Total	EPA-602	60	ug/l	SO-B	09/28/99			



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW- AES sample #: 990924 W05								
	PARAMETTER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE			
4	Chloromethane	EPA-601	<10	ug/l	SO-B	09/28/99			
-	Bromomethane	EPA-601	<10.	ug/l	SO-B	09/28/99			
	Dichlorodifluoromethane	EPA-601	<10	ug/l	SO-B	09/28/99			
	Vinyl Chloride	EPA-601	<10	ug/l	SO-B	09/28/99			
	Chloroethane	EPA-601	<10	ug/l	SO-B	09/28/99			
-	Methylene Chloride	EPA-601	<10	ug/l	SO-B	09/28/99			
-	Trichlorofluoromethane	EPA-601	<10	ug/l	SO-B	09/28/99			
	1,1-Dichloroethene	EPA-601	<10	ug/l	SO-B	09/28/99			
-	,1-Dichloroethane	EPA-601	<10	ug/l	SO-B	09/28/99			
	Total 1,2 Dichloroethene	EPA-601	<10	ug/l	SO-B	09/28/99			
-	Chloroform	EPA-601	<10	ug/l	SO-B	09/28/99			
_	1,2 Dichloroethane	EPA-601	<10	ug/l	SO-B	09/28/99			
-	1,1,1-Trichloroethane	EPA-601	<10	ug/l	SO-B	09/28/99			
-	Carbon Tetrachloride	EPA-601	<10	ug/l	SO-B	09/28/99			
	Bromodichloromethane	EPA-601	<10	ug/l	SO-B	09/28/99			
	1,2-Dichloropropane	EPA-601	<10	ug/l	SO-B	09/28/99			
_	t-1,3-Dichloropropene	EPA-601	<10	ug/l	SO-B	09/28/99			
	Trichloroethylene	EPA-601	15	ug/l	SO-B	09/28/99			
-	Dibromochloromethane	EPA-601	<10	ug/l	SO-B	09/28/99			
	1,1,2-Trichloroethane	EPA-601	<10	ug/l	SO-B	09/28/99			



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	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW- AES sample #: 990924 W05 continued:		Da J. Blaum					
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE		
	cis-1,3-Dichloropropene	EPA-601	<10	ug/l	SO-B	09/28/99		
	2-Chloroethylvinylether	EPA-601	<10.	ug/l	SO-B	09/28/99		
	Bromoform	EPA-601	<10	ug/l	SO-B	09/28/99		
-	1,1,2,2-Tetrachloroethane	EPA-601	<10	ug/l	SO-B	09/28/99		
	Tetrachloroethylene	EPA-601	<10	ug/l	SO-B	09/28/99		
-	Benzene	EPA-602	<5	ug/l	SO-B	09/28/99		
-	Toluene	EPA-602	<10	ug/l	SO-B	09/28/99		
	Ethylbenzene	EPA-602	85	ug/l	SO-B	09/28/99		
	hlorobenzene	EPA-602	<10	ug/l	SO-B	09/28/99		
	1,4-Dichlorobenzene	EPA-602	<10	ug/l	SO-B	09/28/99		
	1,3-Dichlorobenzene	EPA-602	<10	ug/l	SO-B	09/28/99		
	1,2-Dichlorobenzene	EPA-602	<10	ug/l	SO-B	09/28/99		
	Xylenes, Total	EPA-602	400	ug/l	SO-B	09/28/99		

 $\left( \right)$ /ara APPROVED BY:

Report date: 10/01/99



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		CHAIN	A full s					ratory d	iffering s	olutions i	to environme	intal concer				
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EDM		KOIKa PONUMBER -	auffic.			John Blauns										
ADDRESS / Marca Albany	NY 12205	PO NUMBER -				SAMPLERS: (Signature)						****				
AES SAMPLE NUMBER	/	CLIENT IFICATION & LOCATIO	DATE ION SAMPLED		TIME A=a.m. P=p.m. MATRIX					ANALYSIS REQUIRED						
190924 WOI	CDM-VEU	50-11	91	24/99	A CONTRACT	X۴	GW	X	2	=p;	46014	602				
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. 1 1	ethod of Shipment: Hand Dolivel				C	1	at	ş		,		Send Report To: Client Phone No. 482-300				

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of \$10.00 per container for disposal.

WHITE - Lab Copy

YELLOW - Sampler Copy

Adirondack Environmental Services, Inc.

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## GROUNDWATER SAMPLING DATA AND GROUNDWATER TREAMENT UNIT DISCHARGE MONITORING DATA



OCT 2 3 1998

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LABORATORY REPORT

for

Camp Dresser & McKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Attention: John Blaum

Report date: 10/14/98 Number of samples analyzed: 4 AES Project ID: 980929 W Invoice #: 192366

ELAP ID#: 10709

AIHA ID#: 7866 Page 1



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1 AES sample #: 980929 WC1		ite Sample ite sample Loc	/29/98 /29/98 y Inc Site		
		MATRIX: Ground Wa		gra		,
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	Chloromethane	EPA-601	<20	ug/l	BW-B	09/30/98
	Bromomethane	EFA-601	<20	ug/l	BW-B	09/30/98
	Dichlorodifluoromethane	EPA-601	<20	ug/l	BW-B	09/30/98
	Vinyl Chloride	EPA-601	<20	ug/l	BM-B	09/30/98
	Chloroethane	EPA-601	<20	ug/l	BM-B	09/30/98
•	Methylene Chloride	EFA-601	<20	ug/l	EM-B	09/30/98
_	Trichlorofluoromethane	EPA-601	<20	ug/l	BW-B	09/30/98
	1,1-Dichloroethene	EFA-601	<20	ug/l	BW-B	09/30/98
-	1,1-Dichlorcethane	EPA-601	<20	ug/l	BW-B	09/30/98
	Total 1,2 Dichloroethene	EFA-601	1000	ug/l	BW-B	10/01/98
-	Chloroform	EPA-601	<20	ug/l	BW-B	09/30/98
	1,2 Dichloroethane	EPA-601	<20	ug/l	BW-B	09/30/98
	1,1,1-Trichloroethane	EPA-601	120	ug/l	BW-B	09/30/98
-	Carbon Tetrachloride	EPA-601	<20	ug/l	BW-B	09/30/98
	Bromodichloromethane	EPA-601	<20	ug/l	BW-B	09/30/98
-	1,2-Dichloropropane	EPA-601	<20	ug/l	BW-B	09/30/98
	t-1,3-Dichloropropene	EPA-601	<20	ug/l	BW-B	09/30/98
-	Trichloroethylene	EPA-601	4700	ug/l	BW-E	10/01/98
-	Dibromochloromethane	EPA-601	<20	ug/l	BW-B	09/30/98
	1,1,2-Trichloroethane	EFA-601	<20	ug/l	BM-B	09/30/98

#### 2 Page



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CLIENT: Camp Dresser & McK CLIENT'S SAMPLE ID: CDM-VE	W1-01	D		received:	C9/29/98 d: C9/29/98			
AES sample #: 980929 W01	Samples taken by MATRIX: Ground	7: J. Blaum 1 Water	m Location: Korkay Inc grab					
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	<u>NOTEBK RE</u>	E TEST DATE			
cis-1,3-Dichloropropene	EPA-601	<20	ug/l	BW-E	09/30/93			
2-Chloroethylvinylether	EPA-601	<20	ug/1	BW-B	09/30/98			
Bromoform	EPA-601	<20	ug/l	BW-B	09/30/98			
1,1,2,2-Tetrachloroethane	EPA-601	<20	ug/l	BW-B	09/30/98			
Tetrachloroethylene	EPA-601	<20	ug/l	BW-B	09/30/98			
Benzene	EPA-602	<10	ug/l	BW-B	09/30/98			
Toluene	EPA-602	<20	ug/l	BW-B	09/30/98			
Ethylbenzene	EPA-602	530	ug/l	BW-B	09/30/98			
unlorobenzene	EFA-602	<20	ug/l	BW-B	09/30/98			
1,4-Dichlorobenzene	EPA-602	<20	ug/l	BW-B	09/30/98			
1,3-Dichlorobenzene	EPA-602	<20	ug/l	BW-B	09/30/98			
1,2-Dichlorobenzene	EPA-602	53	ug/l	BW-B	09/30/98			
Xylenes, Total	EPA-602	1600	ug/l	BW-B	10/01/98			



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## Experience is the solution

CLIENT: Camp Dresser & McKe CLIENT'S SAMPLE ID: CDM-VEW AES sample #: 980929 WC2	e 2-01 Samples taken by:	Da		d: 09 received: 09 ation: Korka	
	MATRIX: Ground		gra		-
PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Chloromethane	EPA-601	<25	ug/l	BW-B	09/30/98
Bromomethane	EPA-601	<25	ug/l	BW-B	09/30/98
Dichlorodifluoromethane	EFA-601	<25	ug/l	BW-B	09/30/98
Vinyl Chloride	EPA-601	<25	ug/l	EW-B	09/30/98
Chloroethane	EFA-601	<25	ug/l	BW-B	09/30/98
Methylene Chloride	EPA-601	<25	ug/l	BW-B	09/30/98
Trichlorofluoromethane	EPA-601	<25	ug/l	BW-B	09/30/98
1,1-Dichloroethene	EPA-601	<25	ug/l	EW-B	09/30/98
1,1-Dichloroethane	EPA-601	<25	ug/l	BW-B	09/30/98
Total 1,2 Dichloroethene	EFA-601	2600	ug/l	EW-E	10/01/98
Chloroform	EPA-601	<25	ug/l	BW-B	96\02\60
1,2 Dichloroethane	EPA-601	<25	ug/l	BW-B	09/30/98
1,1,1-Trichloroethane	EPA-601	<25	ug/l	BW-B	09/30/98
Carbon Tetrachloride	EFA-601	<25	ug/l	BN-B	09/30/98
Eromodichloromethane	EPA-601	<25	ug/l	BW-B	09/30/98
1,2-Dichloropropane	EPA-601	<25	ug/1	EW-B	09/30/98
t-1,3-Dichloropropene	EFA-601	<25	ug/l	BW-B	09/30/98
Trichloroethylene	EPA-601	75	ug/l	BW-B	09/30/98
Dibromochloromethane	EPA-601	<25	ug/l	BW-B	09/30/98
1,1,2-Trichloroethane	EFA-601	<25	ug/l	BW-B	09/30/98



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2 AES sample #: 980929 WC2		D J. Blaum	-	received: 09 ation: Korka	9/29/98 9/29/98 y Inc Site
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	cis-1,3-Dichloropropene	EPA-601	<25	ug/1	BW-B	09/30/98
-	2-Chloroethylvinylether	EPA-601	<25	ug/1	BW-B	09/30/98
	Eromoform	EFA-601	<25	ug/l	BW-B	09/30/98
-	1,1,2,2-Tetrachloroethane	EPA-601	<25	ug/1	BW-B	09/30/98
	Tetrachloroethylene	EPA-601	<25	ug/l	BW-B	09/30/98
-	Benzene	EPA-602	<13	ug/1	BW-B	09/30/98
	Toluene	EPA-602	75	ug/l	BW-B	09/30/98
	Ethylbenzene	EPA-602	150	ug/l	BW-B	09/30/98
-	unlorobenzene	EPA-602	<25	ug/1	BW-B	09/30/98
	1,4-Dichlorobenzene	EPA-602	<25	ug/l	BM-B	09/30/98
-	1,3-Dichlorobenzene	EPA-602	<25	ug/l	BW-B	09/30/98
	1,2-Dichlorobenzene	EPA-602	<25	ug/l	BW-B	09/30/98
	Xylenes, Total	EPA-602	530	ug/l	BW-B	09/30/98

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TRG	TEST 3	K KE	NOLEE	SLIN	1	TURE	4		IOD	HTTER'		RAED	PERFO	भवायग	AAAG	
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9	8/67/60	:pə	vieber el	dures	916G					TO	-INSA-MOC					
9	86/62/60		;bəi	[qms2	∋ãčē						ы МсКее	TSSSE	d qmsD		CLIE	

86/05/60	E-WE	1/5n	<20	EPA-601	enshreeroidbirT-S,i,i
86/05/60	E-WE	I/br.	02>	EPA-601	Dibromothloromethane
86/08/60	EW-E	1/5n	<20	EPA-601	eneiviteorointiT
86/08/60	E-WE	1/5n	0Z>	109-44E	snsqorqoroinoiG-2,1-1
86/08/60	E-WE	1/Sn	<20	103-A95	т,,2-Бісііоторторале
36/08/50	E-WE	ī/5n	<20	108-445	enshremereide ibemera
86/05/60	8-M8	1∕5n	<20	EEA-601	Carbon Tetrachioride
86/08/60	E-ME	ī∕6n	<20	109-ASE	ensdrecroidcirT-1,1,1,1
86/08/60	∃-W∃	t∕5n	<20	109-44E	1,2 Dichloroethane
86/08/60	E-WE	t/5n	<30	108-453	ωτοτοιάΟ
86/08/60	E-WS	t/5n	CSI	108-AGE	Foral 1,2 Dichlorothene
86/05/60	54-B	ī/bn	<20	109-A9E	елвизеотоі́лоі́д-і́,. 👞
86/08/60	Е-М-Е	ī/Sn	<50	109-A43	1,1-Dichloroethene
36/05/60	E-WE	I/Dn	<20	109-ASE	enshiemorouficroinsirT
86/08/60	E-VE	t/Bn	<20	109-AGE	ebiroldO enelydreM
86/08/60	E-M2	I/bn	<20	109-A93	Shiorosthane
86/08/60	E-WE	t/Sn	<20	EPA-601	əbiroldO lyny 🖿
86/05/60	E-WE	<u>1/5n</u>	07>	109-ASE	Pichlorodiflucromethane
86/05/60	E-Wa	t∕5n	<20 <sup>1</sup>	103-ASE	STOMOMethane
36/05/50	E-ME	ĭ∕6n	<50	109-A43	Chloromethane
<u>arko</u> <u>Tear</u>	NOLEER REE	SLING	RESULT	COHLER	PARAMETER PERFORMED

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AES sample #: 980929	CDM-ASW1-01	Da J. Blaum						
continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE			
cis-1,3-Dichloroprope	ne EFA-601	<20	ug/l	BW-E	09/30/98			
2-Chloroethylvinyleth	er EPA-601	<20.	ug/1	BW-B	09/30/98			
Bromoform	EPA-601	<20	ug/l	BW-B	09/30/98			
1,1,2,2-Tetrachloroet	hane EPA-601	<20	ug/l	BW-B	09/30/98			
Tetrachloroethylene	EPA-601	<20	ug/l	BW-B	09/30/98			
Benzene	EPA-602	<10	ug/l	BW-B	09/30/38			
Toluene	EPA-602	220	ug/l	BW-B	09/30/98			
Ethylbenzene	EPA-602	790	ug/l	BW-B	09/30/98			
<ul> <li>unlorobenzene</li> </ul>	EPA-602	<20	ug/l	BW-B	09/30/98			
1,4-Dichlorobenzene	EPA-602	<20	ug/l	BW-B	09/30/98			
1,3-Dichlorobenzene	EFA-602	<20	ug/l	BW-B	09/30/98			
1,2-Dichlorobenzene	EPA-602	20	ug/l	BW-B	09/30/98			
— Xylenes, Total	EFA-602	2300	ug/l	EW-E	10/01/98			



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-TB-C			ite Sample ite sample	d: CS received: CS	06/98 0/29/98
	AES sample #: 980929 WC4	Samples taken by: MATRIX: Water		-	ation: Korka	
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
	Chloromethane	EFA-601	<1	ug/l	BM-B	09/30/98
-	Bromomethane	EFA-601	<1	ug/l	EM-B	09/30/98
	Dichlorodifluoromethane	EFA-601	<1	ug/l	BW-B	09/30/98
-	Vinyl Chloride	EPA-601	<1	ug/l	BM-B	09/30/98
	Chloroethane	EFA-601	<1	ug/l	BW-B	09/30/98
	Methylene Chloride	EFA-601	<1	ug/l	EM-B	09/30/98
_	Trichlorofluoromethane	EFA-601	<1	ug/l	BW-B	09/30/98
-	1,1-Dichloroethene	EPA-601	<1	ug/l	BM-B	09/30/98
	1,1-Dichloroethane	EFA-601	<1	ug/l	BW-B	09/30/98
	Total 1,2 Dichloroethene	EFA-601	<1	ug/l	BW-B	09/30/98
-	Chloroform	EPA-601	<1	ug/l	BW-B	09/30/98
_	1,2 Dichloroethane	EPA-601	<1	ug/l	BW-B	09/30/98
	1,1,1-Trichloroethane	EPA-601	<1	ug/l	BW-B	09/30/98
	Carbon Tetrachloride	EPA-601	<1	ug/l	BW-B	09/30/98
	Eromodichloromethane	EPA-601	<1	ug/l	BW-B	09/30/98
	1,2-Dichloropropane	EFA-601	<1	ug/l	BW-B	09/30/98
	t-1,3-Dichloropropene	EPA-601	<1	ug/l	BW-B	09/30/98
	Trichloroethylene	EPA-601	<1	ug/l	BW-B	09/30/98
-	Dibromochloromethane	EFA-601	<1	ug/l	BW-B	09/30/98
	1,1,2-Trichloroethane	EPA-601	<1	ug/l	BW-B	09/30/98

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CLIENT: Camp Dresser & McK CLIENT'S SAMPLE ID: CDM-TB AES sample #: 980929 WC4		Da		received: 09	0/06/98 0/29/98 Ny Ind S
	MATRIX: Water	U. Didum	gra		ly inc c
continued:	New York		: 117/7-0		
PARAMETER PERFORMED	METHOD	RESULT	<u>UNITS</u>	NOTEBK REF	<u>test</u> D
cis-1,3-Dichloropropene	EFA-601	<1	ug/l	BW-B	09/30
2-Chloroethylvinylether	EPA-601	<1	ug/l	BW-B	09/30
Bromoform	EPA-601	<1	ug/l	BM-B	09/30
1,1,2,2-Tetrachloroethane	EPA-601	<1	ug/l	BW-B	09/30
Tetrachloroethylene	EPA-601	<1	ug/l	BW-B	69/30
Benzene	EPA-602	<0.5	ug/l	BW-B	09/30
Toluene	EFA-602	<1	ug/l	EW-B	09/30
Ethylbenzene	EPA-602	<1	ug/l	EW-B	09/30
unlorobenzene	EFA-602	<1	ug/l	BW-B	09/30
1,4-Dichlorobenzene	EPA-602	<1	ug/1	BM-B	09/30
1,3-Dichlorobenzene	EPA-602	<1	ug/l	BW-B	09/30
1,2-Dichlorobenzene	EPA-602	<1	ug/l	BW-B	09/30
Xylenes, Total	EPA-602	<1	ug/1	BW-B	09/30

r N ) aia APPROVED BY: Report date: 10/14/98

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## A full service analytical research laboratory offering solutions to environmental concerns CHAIN OF CUSTODY RECORD

CLIENT NAME	······································	PROJECT NAME (L	ocation)		SAMPL	ERS:	(Names)					
CDM		Korka	y InC	site		To	sha	ß	lau	h		
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AES SAMPLE NUMBER	c	L LIENT FICATION & LOCATIO	N	DATE SAMPLED	TIME A¢e.r P=p.r		SAMPLE MATRIX		_		ALYSIS RE	QUIRED
980929 WOI	CDM-VE	W1-01	9/	29/98	1005	A P	ŚΨ	1	12	EPA	- 60	1460
NOJ	CDM- VE	=w2-0-	\$	[	123	A P	Gu	X	< Z		/	
	CDM-AS			b	1:AS	A P	GW	>	2			
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Method of Shipme	nt: Deliver	s	end Repo	ort To:						CI	ient Pl	none No

The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

WHITE - Lab Copy

YELLOW - Sampler Copy

Adirondack Environmental Services, Inc.



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LABORATORY REPORT

for

Camp Dresser & McKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Attention: John Blaum

Report date: 12/23/98 Number of samples analyzed: 6 AES Project ID: 981210BK Invoice #: 195110

ELAP ID#: 10709

AIHA ID#: 7866 Page 1



•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW- AES sample #: 981210BK04		Da J.P.Elaum	-	received: 12 ation: Korka	/09/98 /10/98 y Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	Chloromethane	EPA-601	<1	ug/l	30-B	12/16/98
_	Bromomethane	EPA-601	<1	ug/1	SO-E	12/16/98
-	Dichlorodifluoromethane	EPA-601	<1	ug/l	SO-B	12/16/98
-	Vinyl Chloride	EFA-601	<1	ug/1	SO-B	12/16/98
	Chloroethane	EPA-601	<1	ug/l	50-B	12/16/98
-	Methylene Chloride	EFA-601	<1	ug/l	50-B	12/16/98
	Trichlorofluoromethane	EPA-601	<1	ug/l	SO-B	12/16/98
-	1,1-Dichloroethene	EFA-601	<1	ug/l	SO-B	12/16/98
-	.,1-Dichloroethane	EPA-601	<1	ug/l	SO-B	12/16/ <b>9</b> 8
	Total 1,2 Dichloroethene	EFA-601	<1	ug/l	SO-B	12/16/98
-	Chloroform	EPA-601	450	ug/l	SO-B	12/17/98
	1,2 Dichloroethane	EFA-601	<1	ug/l	SO-B	12/16/98
	1,1,1-Trichloroethane	EPA-601	<1	ug/l	SO-B	12/16/98
-	Carbon Tetrachloride	EPA-601	<1	ug/l	SO-B	12/16/98
	Bromodichloromethane	EPA-601	<1	ug/l	SO-B	12/16/98
-	1,2-Dichloropropane	EPA-601	<1	ug/l	SO-B	12/16/98
	t-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	12/16/98
•	Trichloroethylene	EFA-601	13	ug/l	SO-B	12/16/98
	Dibromochloromethane	EPA-601	<1	ug/l	50-B	12/16/98
-	1,1,2-Trichloroethane	EPA-601	<1	ug/l	30-E	12/16/98



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW- AES sample #: 981210BK04							
	continued: <u>PARAMETER</u> <u>PERFORMED</u>	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE		
	cis-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	12/16/98		
-	2-Chloroethylvinylether	EPA-601	<1	ug/l	S0-B	12/16/98		
	Bromoform	EPA-601	<1	ug/l	S0-B	12/16/98		
-	1,1,2,2-Tetrachloroethane	EFA-601	<1	ug/l	SO-E	12/16/98		
	Tetrachloroethylene	EFA-601	9	ug/l	SO-B	12/16/98		
	Benzene	EPA-602	3	ug/l	S0-B	12/16/98		
-	Toluene	EPA-602	130	ug/l	SO-B	12/17/98		
	Ethylbenzene	EPA-602	400	ug/l	SO-B	12/17/98		
-	ulorobenzene	EPA-602	<1	ug/l	S0~B	12/16/98		
	1,4-Dichlorobenzene	EPA-602	<1	ug/l	30-B	12/16/98		
-	1,3-Dichlorobenzene	EPA-602	<1	ug/l	SO-B	12/16/98		
_	1,2-Dichlorobenzene	EPA-602	58	ug/l	SO-B	12/16/98		
	Xylenes, Total	EPA-602	2200	ug/l	SO-B	12/17/98		



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-CARB AES sample #: 981210BK05		Da J.P.Blaum	-	received: 12 ation: Korka	/09/98 /10/98 y Inc.
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
-	Chloromethane	EPA-601	<1	ug/l	50-B	12/16/98
_	Bromomethane	EPA-601	<1	ug/l	50-B	12/16/98
-	Dichlorodifluoromethane	EFA-601	<1	ug/l	50-B	12/16/98
-	Vinyl Chloride	EPA-601	<1	ug/l	SO-B	12/16/98
	Chloroethane	EPA-601	<1	ug/l	SO-B	12/16/98
-	Methylene Chloride	EPA-601	<1	ug/l	SO-B	12/16/98
	Trichlorofluoromethane	EFA-601	<1	ug/l	30-B	12/16/98
	1,1-Dichloroethene	EPA-601	<1	ug/l	SO-E	12/16/98
-	1,1-Dichloroethane	EPA-601	<1	ug/l	SO-B	12/16/98
	Total 1,2 Dichloroethene	EFA-601	<1	ug/l	SO-B	12/16/98
-	Chloroform	EPA~601	<1	ug/l	SO-B	12/16/98
	1,2 Dichloroethane	EPA-601	<1	ug/l	SO-E	12/16/98
-	1,1,1-Trichloroethane	EPA-601	<1	ug/l	SO-B	12/16/98
-	Carbon Tetrachloride	EPA-601	<1	ug/l	SO-B	12/16/98
	Bromodichloromethane	EFA-601	<1	ug/l	50-B	12/16/98
-	1,2-Dichloropropane	EPA-601	<1	ug/l	SO-B	12/16/98
	t-1,3-Dichloropropene	EPA-601	<1	ug/l	S0-B	12/16/98
	Trichloroethylene	EPA-601	<1	ug/l	Sû-B	12/16/98
-	Dibromochloromethane	EPA-601	<1	ug/l	SO-B	12/16/98
	1,1,2-Trichloroethane	EFA-601	<1	ug/l	SO-B	12/16/98



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-CARE AES sample #: 981210BK05								
	continued: PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE			
•	cis-1,3-Dichloropropene	EPA-601	<1	ug/l	SO-B	12/16/98			
	2-Chloroethylvinylether	EPA-601	<1	ug/l	SO-B	12/16/98			
	Bromoform	EPA-601	<1	ug/l	SO-B	12/16/98			
-	1,1,2,2-Tetrachloroethane	EPA-501	<1	ug/l	SO-E	12/16/98			
	Tetrachloroethylene	EPA-601	<1	ug/l	SO-B	12/16/98			
-	Benzene	EPA-602	<0.5	ug/l	SO-B	12/16/98			
_	Toluene	EPA-602	<1	ug/l	SO-E	12/16/98			
	Ethylbenzene	EPA-602	<1	ug/l	SO-B	12/16/98			
-	lorobenzene	EPA-602	<1	ug/l	SO-B	12/16/98			
	1,4-Dichlorobenzene	EPA-602	<1	ug/l	SO-B	12/16/98			
-	1,3-Dichlorobenzene	EPA-602	<1	ug/l	S0-B	12/16/98			
	1,2-Dichlorobenzene	EPA-602	<1	ug/l	S0-B	12/16/98			
-	Xylenes, Total	EPA-602	<1	ug/l	SO-B	12/16/98			



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: Detectio AES sample #: 981210EK06	n Limits Samples taken by: MATRIX: Air	Da	Loc	d: 12 received: 12 ation: Korka posite	
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEEK REF	TEST DATE
-	Benzene	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
_	Cyclohexane	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
	Cyclohexene	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
-	Heptane	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
	Hexane	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
-	Methyl Cyclohexane	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
	Octane	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
	Pentane	Niosh-1500	10	ug	TN-GCA-C11	12/11/98
	Juene	Niosh-1500	10	ug	TN-GCA-C11	12/11/98

1 c.f. ara APPROVED BY: Report date: 12/23/98

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CUENT NAME	SSA MACK					EPS						
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<u>CUENT NAME</u> <u>I Marcus</u> B. <u>ADDRESS</u> <u>Albany</u> NY	12205				SAMPE	LEHS: (	Signatu		Bi	<u></u>		
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The Laboratory reserves the right to return hazardous samples to the client or may levy an appropriate fee per container for disposal.

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Adirondack Environmental Services, Inc.

PINK - Generator Copy



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LABORATORY REPORT

for

Camp Dresser & McKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Attention: John Blaum

Report date: 03/01/99 Number of samples analyzed: 2 AES Project ID: 990217 V Invoice #: 197257

ELAF ID#: 10709

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AIHA ID#: 7866 Page 1

Albany, NY + Buffalo, NY + Rochester, NY + Saratoga Springs, NY + Syracuse, NY + Basking Ridge, NJ + Hartford, CT



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•	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-ASW- AES sample #: 990217 VO1	e -O3 Samples taken by: MATRIX: Ground W	D J. Blaum		received: 02 ation: Korka	
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
•	Chloromethane	EPA-601	<50	ug/l	KS-B	02/19/99
	Bromomethane	EPA-601	<50	ug/1	KS-B	02/19/99
	Dichlorodifluoromethane	EPA-601	<50	ug/l	KS-B	02/19/99
-	Vinyl Chloride	EPA-601	<50	ug/l	KS-E	02/19/99
	Chloroethane	EPA-601	<50	ug/1	KS-B	02/19/99
	Methylene Chloride	EPA-601	<50	ug/1	KS-B	02/19/99
_	Trichlorofluoromethane	EPA-601	<50	ug/l	KS-B	02/19/99
-	1,1-Dichloroethene	EPA-601	<50	ug/l	KS-B	02/19/99
-	_,1-Dichloroethane	EPA-601	<50	ug/l	KS-B	02/19/99
	Total 1,2 Dichloroethene	EPA-601	520	ug/1	KS-B	02/19/99
-	Chloroform	EPA-601	<50	ug/l	KS-B	02/19/99
_	1,2 Dichloroethane	EPA-601	<50	ug/l	KS-B	02/19/99
-	1,1,1-Trichloroethane	EPA-601	<50	ug/l	KS-B	02/19/99
-	Carbon Tetrachloride	EPA-601	<50	ug/l	KS-B	02/19/99
	Bromodichloromethane	EPA-601	<50	ug/l	KS-B	02/19/99
-	1,2-Dichloropropane	EFA-601	<50	ug/1	KS-B	02/19/99
_	t-1,3-Dichloropropene	EPA-601	<50	ug/l	KS-B	02/19/99
	Trichloroethylene	EFA-601	<50	ug/l	KS-B	02/19/99
-	Dibromochloromethane	EPA-601	<50	ug/l	KS-B	02/19/99
	1,1,2-Trichloroethane	EPA-601	<50	ug/l	KS-E	02/19/99

## SOIL VAPOR EXTRATION WELL SAMPLING DATA

SEP 3 0 1999



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LABORATORY REPORT

for

Camp Dresser & McKee 1 Marcus Boulevard Suite 201 Albany, NY 12205

Attention: John Blaum

Report date: 09/29/99 Number of samples analyzed: 5 AES Project ID: 990916HC Invoice #: 204573

ELAP ID#: 10709

AIHA ID#: 7866 Page 1



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW1 AES sample #: 990916HCO1		Date Sampled: 08/16/99 Date sample received: 09/16/99 Blaum Location: Korkay, Inc. grab					
-	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE		
	Benzene	Niosh 1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Cumene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	p-tert-Butyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Ethylbenzene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	a-Methylstyrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Naphthalene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Styrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Toluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Vinyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Xylenes, Total	Niosh-1501	22	mg/m3	TN-GCA-C27	09/17/99		
	Total Hydrocarbons	Niosh-1501	1342	mg/m3	TN-GCA-C27	09/17/99		



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW2 AES sample #: 990916HCO2		Date Sampled: 08/16/99 Date sample received: 09/16/99 Blaum Location: Korkay, Inc. grab					
-	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE		
	Benzene	Niosh 1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Cumene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	p-tert-Butyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Ethylbenzene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	a-Methylstyrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Naphthalene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Styrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Toluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Vinyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Xylenes, Total	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Total Hydrocarbons	Niosh-1501	<100	mg/m3	TN-GCA-C27	09/17/99		



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW3 AES sample #: 990916HC03		Date Sampled: 08/16/99 Date sample received: 09/16/99 .Blaum Location: Korkay, Inc. grab					
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE		
	Benzene	Niosh 1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Cumene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	p-tert-Butyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Ethylbenzene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	a-Methylstyrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Naphthalene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Styrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Toluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Vinyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
-	Xylenes, Total	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99		
	Total Hydrocarbons	Niosh-1501	<100	mg/m3	TN-GCA-C27	09/17/99		



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-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: CDM-VEW4 AES sample #: 990916HCO4		te Sampled: 08/16/99 te sample received: 09/16/99 Location: Korkay, Inc. grab				
	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE	
	Benzene	Niosh 1501	<10	mg/m3	TN-GCA-C27	09/17/99	
-	Cumene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
_	p-tert-Butyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
	Ethylbenzene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
-	a-Methylstyrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
	Naphthalene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
-	Styrene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
	Toluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
-	Vinyltoluene	Niosh-1501	<10	mg/m3	TN-GCA-C27	09/17/99	
	Xylenes, Total	Niosh-1501	25	mg/m3	TN-GCA-C27	09/17/99	
	Total Hydrocarbons	Niosh-1501	671	mg/m3	TN-GCA-C27	09/17/99	



-	CLIENT: Camp Dresser & McKee CLIENT'S SAMPLE ID: Detectic AES sample #: 990916HC05		Date Sampled: 08/16/99 Date sample received: 09/16/99 J.Blaum Location: Korkay, Inc. grab					
-	PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF TEST DATE			
	Benzene	Niosh 1501	10	ug	TN-GCA-C27 09/17/99			
-	Cumene	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			
	p-tert-Butyltoluene	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			
-	Ethylbenzene	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			
-	a-Methylstyrene	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			
	Naphthalene	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			
-	Styrene	Niosh-1501	10	ug	<b>TN-GCA-</b> C27 09/17/99			
	Toluene	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			
-	Vinyltoluene	Niosh-1501	10	ug	<b>TN-GCA-C</b> 27 09/17/99			
-	Xylenes, Total	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			
-	Total Hydrocarbons	Niosh-1501	10	ug	TN-GCA-C27 09/17/99			

a N APPROVED BY: Report date: 09/29/99



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The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of \$10.00 per container for disposal.

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