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JANUARY 1989
QUARTERLY SAMPLING REPORT

SOUTHERN CALIFORNIA CHEMICAL
SANTA FE SPRINGS, CA

Prepared by

CAMP DRESSER & MCKEE INC.

JULY 5, 1989

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1.0 INTRODUCTION

This report summarizes the eleventh RCRA quarterly ground water monitoring sampling and analyses period at Southern California Chemical (SCC), Santa Fe Springs, California. Contained herein are the results of laboratory analyses of ground water samples and water level measurements obtained during the period January 23 to February 1, 1989.

The purpose of the quarterly ground water sampling program, which began in February 1985, is to monitor ground water quality and establish a database of the compounds in the ground water beneath the site. The primary goals of the program are (a) to assess the location and concentration of chromium and cadmium contamination, (b) to detect and evaluate water quality changes, and (c) to characterize background water quality.

In addition to the data obtained during the January 1989 sampling, this report contains plot plans showing contaminant distribution (Appendix A) and a summary of all previous sampling data (Appendix B). Copies of the original laboratory results are included in Appendices C, D, and E. Chain-of-custody records for the January 1989 sampling are included in Appendix F.

2.0 MONITOR WELL SAMPLING

Ground water sampling, utilizing existing on-site monitoring wells, was conducted by CDM field personnel during the period of January 23 to February 1, 1989. Field activities were performed according to the sampling protocol as outlined in the existing, unapproved, Southern California Chemical Quality Assurance Project Plan (Kleinfelder QAPP, May 1988).

Twelve monitor wells were sampled as part of this program (Figure A-1, Appendix A). Of these, 11 are screened in the upper portion of the Hollydale aquifer. The 12th well, MW-4A, is screened in the lower portion of the Hollydale aquifer. An additional monitoring well, MW06b, historically has not been sampled for ground water analysis since it is a dry well. The well is screened in the lower portion of the uppermost aquifer, the Gage Aquifer, which is dry below the site.

As outlined in the Kleinfelder QAPP, certain analyses have been performed on a quarterly schedule, while others have been done on a biannual schedule, coinciding with quarterly sampling. Analyses were performed on a quarterly schedule for the site-specific chemicals of total chromium, hexavalent chromium, copper, cadmium, zinc, chloride, nitrate as N and nitrate as NO_3 (Cr, CrVI, Cu, Cd, Zn, Cl, N, NO_3) on ground water from all wells, and analyses for purgeable halogenated/aromatic organic compounds by EPA Methods 601/602 on ground water from six wells (MW03, MW04, MW08, MW09, MW10, and MW11) located in the northern portion of the site. Analyses for purgeable volatile organic compounds on ground water from the remaining five wells (MW01, MW02, MW05, MW06b, and MW07) and ground water contamination indicator chemicals as per 40 CFR (Code of Federal Regulations) 265.92 (pH, TOC (total organic carbon), TOX (total organic halogens), and EC (Electric Conductivity - in quadruplicate) on ground water from all wells, were performed on a biannual schedule in addition to the January and June quarterly samplings. Thus, ground water samples that were collected from all twelve wells during January 1989 were analyzed for purgeable volatile organic compounds, site-specific indicator chemicals, and the EPA indicator chemicals.

Beginning with the April 1989 quarterly sampling program, samples will be analyzed from every ground water monitoring well for all purgeable volatile organic compounds. The reason for this is to initiate the development of a more comprehensive analytical data base for use during the RFI for corrective measures evaluation, risk assessment, statistical validation, etc.

As in the past, the Regional Water Quality Control Board (RWQCB), and California Department of Health Services (DHS) were notified prior to commencement of sampling activities and were provided the opportunity to observe sampling and to collect duplicate and/or split samples. No representatives from either agency were present at any time during sampling. In addition to these agencies, EPA will also be notified of every future sampling program, beginning with the April 1989 sampling.

2.1 Sampling Procedure

To ensure continuity with previous quarterly samplings, field sampling and decontamination procedures were carried out as outlined in the Kleinfelder QAPP. Sampling practices included efforts to detect floating product and hydrocarbon vapors at each well, measurement of the static water level and total depth of each well for calculating pre-sampling evacuation volumes, purging and sampling of ground water for laboratory analysis, decontamination of sampling equipment, and correct handling of sample containers.

2.1.1 Detection of Organic Vapors and Immiscible Layers

Due to the known presence of organic compounds in the ground water in the Hollydale aquifer, efforts were made to determine if organic well vapors and immiscible floating product layers could be detected in the field. Prior to opening a monitor well for sampling, the air immediately above the well was monitored for organic vapors through the use of a photoionization detector (PID) equipped with a 10.2 eV lamp. The head space of each well was checked for volatile organic vapors by inserting the intake tube of the PID into the well head immediately after removing the monitoring well security plate and opening the casing cap. The maximum and average reading values for each well were recorded.

The depth to static water level was measured to the nearest 0.01 foot using a decontaminated electric water level sounder. This data was subsequently input in calculations for determining wetted casing volumes and for use in determining ground water elevations at the facility.

A decontaminated, 2-inch diameter, clear teflon bailer, equipped with a bottom ball-check valve, was lowered and immersed into the ground water approximately half its length and brought up to the surface. Although none were observed, field personnel were prepared to record the thickness of floating product or note any iridescence on the water surface.

2.1.2 Purge Volume Determination

The total depth of each monitoring well was measured by lowering the water level sounder line until the sounder weights could be felt contacting the well bottom. This value was compared with the total depth of the well casing, as it had been constructed, to determine the amount of sediment fill present in each well. One wetted casing volume was then calculated by using the following formula:

$$lv = L \times \pi \times r^2$$

where: lv = one wetted casing volume
L = length of wetted casing
π = 3.142
r = inside radius of the casing

2.1.3 Ground Water Purging and Sampling

A decontaminated 40-inch bladder pump consisting of a teflon bladder fitted inside a stainless steel pump body was lowered to the middle of the wetted, open screened casing of each well, where feasible. The air supply and sample discharge lines were constructed of teflon as well. Prior to purging the ground water, the pH and EC meters were calibrated with appropriate calibration solutions.

Water quality parameters (pH, EC, temperature, and visual characteristics) were monitored and recorded at appropriate intervals during the purging of

ground water from each well. Ground water was purged until the parameters had stabilized and approximately three to five well casing volumes were evacuated. All purge water collected from each well was contained and labeled in SCC-supplied 55-gallon barrels for treatment at the on-site facilities.

Ground water samples were discharged directly into previously labeled sample bottles which were then placed inside plastic zip-lock baggies and placed in an ice-cooled chest. Samples for metals analyses where field filtered with a sterile, 0.45-micron, in-line filter as the appropriate bottles were filled. Precautions were taken to ensure that no headspace or bubbles were present in sample vials for volatile organic compound analysis.

Ground water samples were collected in the following sequence as determined in the Kleinfelder QAPP:

- EPA Method 601/602
- TOX, quad
- TOC, quad
- Metals (Cd, Cu, Zn, Cr) *
- Hexavalent Chromium *
- Chloride/Nitrate
- pH/Specific Conductance, quad

* These samples were field-filtered by using an in-line 0.45-micron filter.

Ground water sample bottles were numbered using the following format:

(e.g.) SCC-MW01-0.0-001

Where:

SCC - designates site acronym
MW01 - designates sample location number (MW = Monitoring Well)
EB - equip. blank
SC - steam cleaner
DIW - de-ionized water
0.0 - designates depth sample taken (primarily for soil samples; water = 0.0
001 - designates sequential sample number (per bottle)

Other information on the sample label included date and time, CDM acronym, and analyses to be performed on the sample.

2.1.4 Sample Handling

All sample containers that were collected from each well were accompanied by chain-of-custody forms that indicated the label information as well as the responsible person during each step of the transportation process. All samples were hand-delivered to the appropriate laboratories on the day that they were collected, and a copy of the chain-of-custody for that day was retained by CDM field personnel. The laboratories were notified at the time of delivery that one or more CrVI sample(s) were contained in the shipment to ensure that the samples would be analyzed within the prescribed 24-hour holding period.

2.2 Equipment Decontamination Procedures

The following sections describe the procedures utilized to decontaminate ground water sampling equipment.

2.2.1 Sampling Pump/Lines Decontamination

The bladder pump assembly and lines were decontaminated to reduce the possibility of cross-contamination between monitoring wells. The sample pump assembly was disconnected from the sample lines and disassembled into its components. The components were scrubbed with a phosphate-free detergent solution and rinsed with fresh tap water. They were then sprayed with methanol and double-rinsed with deionized water (DIW). The exterior of the teflon sample lines were scrubbed with a phosphate-free detergent solution and steam cleaned. In addition, the interior of the sample lines were thoroughly flushed with steam and de-ionized water. The pump assembly was reassembled, steam cleaned inside and out, and reattached to the sample lines.

The final decontamination step of the bladder and pump lines involved pumping approximately five gallons of distilled water through the total

assembly. This was accomplished by submerging the pump into a decontaminated 55-gallon barrel containing DIW and pumping approximately 5 gallons of DIW through the system. An additional five gallons of DIW were pumped to allow the collection of an equipment blank after every third well sampling. A sample of the DIW in the 55-gallon drum was taken to perform confirmation analyses for comparison in the event of anomalous laboratory results.

The decontamination of the pump lines was performed over a plastic waterproof tarp. The tarp was placed on a gently sloping surface and bermed up at the lower edges, allowing the decontamination water to flow away from the equipment being cleaned. The spent water was recovered and stored in 55-gallon drums for treatment in the facility's wastewater treatment system.

2.2.2 Accessory Sampling Equipment Decontamination

Accessory sampling equipment such as the teflon bailer and the water level sounder were decontaminated to prevent cross-contamination between the monitoring wells. With the exception of steam-cleaning, the bailer was disassembled and decontaminated exactly as the bladder pump assembly components. The teflon bailer was not steam-cleaned because initial attempts showed that the high temperatures would have melted the bailer.

The water level sounder was decontaminated between wells by scrubbing with a phosphate-free detergent solution and then steam-cleaning.

3.0 LABORATORY TESTING

Three laboratories were utilized as a quality control measure intended to ensure the accuracy of the laboratory analyses performed on the ground water samples. Analytical testing was provided by Montgomery Laboratories (JMM), Pasadena, California, and quality assurance testing was provided by Brown and Caldwell Laboratories (B&C), Pasadena, California. Truesdail Laboratories (TL) of Tustin, California prepared spike samples that were submitted to the above laboratories for assessment of analytical consistency. Spike sample preparation and analysis is discussed in Section 4.3.

Laboratory analyses consisted of analyzing a total of 244 water samples. JMM analyzed 204 ground water samples, 26 quality control samples and 3 spiked samples. JMM conducted analyses for purgeable halogenated and aromatic volatile organics, total organic carbon (TOC), total organic halogen (TOX), select inorganics including hexavalent and total chromium (CRVI, Cr), cadmium (Cd), zinc (Zn), Copper (Cu), chloride (CL) and nitrates (NO_3, NO_3-N). Due to instrumentation problems with their gas chromatograph, JMM subcontracted the majority of samples to be analyzed by EPA Methods 601/602 to Vista Laboratories in Wheat Ridge, Colorado. B&C analyzed 8 duplicate ground water samples and 3 spiked samples for purgeable halogenated and aromatic volatile organic compounds and hexavalent chromium (CRVI).

The results of the January 1989 analyses are summarized in Table 3-1 and discussed in Section 6.0. The results of duplicate and spiked sample analyses are discussed in Section 4.0 and summarized in Tables 4-1 through 4-4. Historical ground water analyses data are summarized on Tables 1 through 12 of Appendix B. Individual analytical reports for January 1989 are located in Appendices C, D and E. Chain-of-custody records are located in Appendix F.

TABLE 3-1 PRIMARY SAMPLE ANALYSES

				January 1989 Quarterly Sampling								
				Southern California Chemical								
				HALOGENATED VOLATILE ORGANIC COMPOUNDS *								
				(Concentrations in ug/l)								
COMPOUND	MW01	MW02	MW03	MW04	MWO4A	MWO5	MWO6B	MWO7	MWO8	MWO9	MW10	MW11
Dichlorodifluoromethane	ND .02	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Methyl Chloride	ND .02	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Vinyl Chloride	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Methyl Bromide	ND .02	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Chloroethane	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Trichlorofluoromethane	ND .05	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1-Dichloroethene	ND .01	ND 0.2	ND 0.2	2 2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Methylene Chloride	ND 1.0	ND 0.2	3.2	1 4	ND 0.2	2.1	ND 0.2	2.2	ND 0.2	1 6	ND 0.2	1
trans-1,2-Dichloroethene	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1-Dichloroethane	ND .01	ND 0.2	4.4	3 6	ND 0.2	ND 0.2	ND 0.2	2.9	3 0	3 4	2.8	3.2
Chloroform	0.2	ND 0.2	1 3	3.7	ND 0.2	7.4	ND 0.2	ND 0.2	ND 0.2	8.9	ND 0.2	0.88
1,1,1-Trichloroethane	ND .01	ND 0.2	ND 0.2	0.68	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	2.9	ND 0.2	ND 0.2
Carbon Tetrachloride	ND .01	ND 0.2	1 5	ND 0.2	ND 0.2	5.6	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,2-Dichloroethane	0.7	ND 0.2	240	2 0	ND 0.2	2 9	ND 0.2	ND 0.2	ND 0.2	4.3	3.7	2 1
Trichloroethene	1 9	6 0	7 4	120	6.7	5.9	5 7	3 5	6 9	5 5	3 2	3 4
1,2-Dichloropropane	ND .02	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Dichlorobromoethane	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
2-Chloroethylvinylether	ND 10.0	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
cis-1,3-Dichloropropene	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
trans-1,3-Dichloropropene	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1,2-Trichloroethane	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Tetrachloroethene	2.8	1.8	4.6	1.6	ND 0.2	ND 0.2	7	2.1	4.3	3.1	1.2	ND 0.2
Dibromochloroethane	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Chlorobenzene	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Bromoform	ND .02	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1,2,2-Tetrachloroethane	ND .02	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,3-Dichlorobenzene	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,4-Dichlorobenzene	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,2-Dichlorobenzene	ND .01	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2

* Analyzed for Montgomery Laboratories by Vista Laboratories, Wheat Ridge, Colorado.

TABLE 3-1 PRIMARY SAMPLE ANALYSES (cont'd)

				January 1989 Quarterly Sampling								
					Southern California Chemical							
		AROMATIC VOLATILE ORGANICS, TOTAL ORGANIC CARBON & TOTAL ORGANIC HALOGENS										
COMPOUND	MW01	MW02	MW03	MW04	MWO4A	MWO5	MWO6B	MWO7	MWO8	MWO9	MW10	MW11
PURGEABLE AROMATICS *												
(Concentrations in ug/l)												
1,3-Dichlorobenzene	ND .01	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
1,4-Dichlorobenzene	ND .01	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
1,2-Dichlorobenzene	ND .01	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
Total Xylenes	ND .01	ND 0.5	1500	29	1.3	ND 1.0	ND 1.0	3.6	1.6	ND 1.0	ND 1.0	1.5
Benzene	ND .01	ND 0.5	7.4	ND 0.5	ND 0.5	0.9	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
Toluene	ND .01	ND 0.5	17	10	ND 0.5	ND 0.5	ND 0.5	1.4	ND 0.5	ND 0.5	ND 0.5	ND 0.5
Ethylbenzene	ND .01	ND 0.5	4900	15	ND 0.5	ND 0.5	ND 0.5	1.2	ND 0.5	ND 0.5	0.54	43
TOTAL ORGANIC CARBON **												
(Concentrations in mg/l)												
TOC #1	6.9	ND 0.5	160.0	16.0	ND 0.5	65.0	ND 0.5	3.6	1.1	2.1	2.0	5.4
TOC #2	7.8	ND 0.5	160.0	14.0	ND 0.5	64.0	ND 0.5	3.7	1.2	1.7	1.9	5.8
TOC #3	7.1	ND 0.5	160.0	14.0	ND 0.5	63.0	ND 0.5	3.6	1.2	1.8	2.0	5.3
TOC #4	7.6	ND 0.5	160.0	13.0	ND 0.5	63.0	ND 0.5	3.5	1.2	1.5	2.0	5.2
TOTAL ORGANIC HALOGEN **												
(Concentrations in ug/l)												
TOX #1	62	50	220	360	49	58	46	90	130	180	38	58
TOX #2	42	47	230	260	38	42	48	42	110	170	36	38
TOX #3	41	57	220	270	19	42	36	80	92	170	33	40
TOX #4	45	39	220	300	29	37	46	130	130	150	51	46

* Analyzed for Montgomery Laboratories by Vista Laboratories, Wheat Ridge, CO; ** Analyzed by Montgomery Laboratories.

TABLE 3-1 PRIMARY SAMPLE ANALYSES (cont'd)

January 1989 Quarterly Sampling
Southern California Chemical

METALS, pH AND ELECTRIC CONDUCTIVITY *

COMPOUND	MW01	MW02	MW03	MW04	MWO4A	MWO5	MWO6B	MWO7	MWO8	MWO9	MW10	MW11
METALS (mg/l)												
Chromium VI (hex)	ND .01	0.017	ND .01	33.0	0.01	ND .010	ND .010	ND .010	ND .010	0.45	ND .010	ND .010
Chlorine	524.0	77.0	302.0	418.0	105.0	98.0	66.0	744.0	145.0	248.0	139.0	110.0
Nitrate (N)	5.2	7.4	0.92	ND 0.2	5.9	0.3	8.7	5.4	5.4	7.8	0.43	2.0
Nitrate (NO3)	22.9	33.0	4.0	ND 0.9	26.0	1.3	38.0	24.0	24.0	34.0	1.9	8.8
Chromium (total)	0.014	0.022	ND .014	400	ND .014	ND .014	ND .014	ND .014	ND .014	0.33	0.029	ND .014
Cadmium	ND .003	ND .003	ND .003	0.028	ND .003	ND .003	ND .003	ND .003	ND .003	ND .003	ND .003	ND .003
Zinc	0.015	ND .006	ND .006	0.007	0.008	ND .006	0.021	ND .006	0.009	0.008	ND .006	ND .006
Copper	ND .009	ND .009	ND .009	ND .009	ND .009	ND .009	ND .009	ND .009	ND .009	ND .009	ND .009	ND .009
pH												
Analysis #1	7.1	7.5	7.1	7.1	7.7	7.4	7.4	9.1	7.4	7.3	7.8	7.6
Analysis #2	7.1	7.5	7.1	7.1	7.7	7.4	7.4	9.1	7.4	7.3	7.8	7.6
Analysis #3	7.1	7.5	7.1	7.1	7.7	7.4	7.4	9.1	7.4	7.3	7.8	7.6
Analysis #4	7.1	7.5	7.1	7.1	7.7	7.4	7.4	9.1	7.4	7.3	7.8	7.6
EC (umohs/cm)												
Analysis #1	2530	1320	1950	2120	1470	1370	1290	3390	1420	1700	1410	1480
Analysis #2	2500	1320	1890	2120	1470	1370	1290	3390	1420	1680	1410	1480
Analysis #3	2520	1320	1900	2120	1470	1370	1290	3390	1430	1680	1410	1480
Analysis #4	2560	1320	1890	2120	1470	1370	1290	3390	1430	1680	1410	1480

* Analyzed by Montgomery Laboratories.

4.0 QUALITY CONTROL

To verify the accuracy and validity of analytical data resulting from laboratory testing, certain quality assurance procedures were implemented, in accordance with the Kleinfelder QAPP. These procedures included the use of duplicate samples, split samples, spiked samples, equipment blanks, travel blanks, and the use of chain-of-custody forms.

4.1 Duplicate Sampling

Duplicate samples for organic analysis were collected from four of the twelve monitoring wells that were sampled. Ground water from monitor wells MW02, MW03, MW04, and MW11 were analyzed for purgeable halogenated and aromatic volatile organic compounds by both JMM and B&C by EPA Methods 601/602. These four wells were selected due to a historical presence of volatile organic compounds in these wells which are located along the facility's northern border. Duplicate samples were also collected from each well to ensure a back-up sample in the event of a container breakage, or a reanalysis if there were an inconsistency, a testing equipment failure, or any other need to confirm results.

Results from the two laboratories are generally in agreement, although the dilution factors utilized at B&C for the analysis of the samples from MW03 and MW04 resulted in higher detection limits for those results. Thus, the concentrations of some compounds analyzed at B&C were not detected, whereas JMM detected the same compounds at levels below the elevated limits of B&C. Additionally, in the samples from MW03, MW04, and MW11, JMM detected methylene chloride at concentrations of 3.2, 14, and 1.0 ug/l, respectively, whereas B&C did not detect methylene chloride at 0.5 ug/l nor at the elevated detection limits. At the time of this printing, it was not known whether the presence of methylene chloride represents a laboratory artifact, which is a relatively common phenomenon. Results of duplicate sample analyses are located in Table 4-1.

TABLE 4-1

DUPLICATE SAMPLE ANALYSES
JANUARY 1989 QUARTERLY SAMPLING
SOUTHERN CALIFORNIA CHEMICAL

Compound	MW02		MW03		MW04		MW11	
	JMM	B&C	JMM	B&C	JMM	B&C	JMM	B&C
Purgeable Halocarbons								
Chloromethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Bromomethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Vinyl Chloride (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Chloroethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Methylene Chloride (ug/l)	ND .2	ND .5	3.2	ND 50	14.	ND 5	1.0	ND .5
1,1-Dichloroethene (ug/l)	ND .2	ND .5	ND .2	ND 50	22.	18	ND .2	0.9
1,1-Dichloroethane (ug/l)	ND .2	ND .5	4.4	ND 50	36.	49	3.2	1.6
Trans-1,2-Dichloroethene (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Chloroform (ug/l)	ND .2	ND .5	13.	ND 50	3.7	ND 5	0.88	ND .5
1,2-Dichloroethane (ug/l)	ND .2	ND .5	240.	210	20.	18	21	17
1,1,1-Trichloroethane (ug/l)	ND .2	ND .5	ND .2	ND 50	0.68	ND 5	ND .2	ND .5
Carbon Tetrachloride (ug/l)	ND .2	ND .5	15.	ND 50	ND .2	ND 5	ND .2	ND .5
Trichlorofluoromethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
1,2-Dichloropropane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Trichloroethene (ug/l)	60	82	74	110	120	ND 5	34	26
Dibromochloromethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
1,1,2-Trichloroethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Cis-1,3-Dichloropropene (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
2-Chloroethylvinylether (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Bromoform (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Tetrachloroethene (ug/l)	1.8	0.8	4.6	ND 50	1.6	ND 5	ND .2	ND .5
1,1,2,2-Tetrachloroethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Chlorobenzene (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Bromodichloromethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5

TABLE 4-1
(continued)

DUPLICATE SAMPLE ANALYSES
JANUARY 1989 QUARTERLY SAMPLING
SOUTHERN CALIFORNIA CHEMICAL

Compound	MW02		MW03		MW04		MW11	
	JMM	B&C	JMM	B&C	JMM	B&C	JMM	B&C
1,2-Dichlorobenzene (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
1,3-Dichlorobenzene (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
1,4-Dichlorobenzene (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Dichlorodifluoromethane (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Trans-1,3-Dichloropropene (ug/l)	ND .2	ND .5	ND .2	ND 50	ND .2	ND 5	ND .2	ND .5
Purgeable Aromatics								
Benzene (mg/l)	ND .5	ND .5	7.4	ND 50	ND .5	ND 5	ND .5	ND .5
Toluene (mg/l)	ND .5	ND .5	17	50	10	12	ND .5	ND .5
Ethylbenzene (mg/l)	ND .5	ND .5	4,900	3,700	15	90	43	17
Total Xylenes (mg/l)	ND .5	ND .5	1,500	1,100	29	55	1.5	1.8

NOTE: ND 1 = Compound was not detected at either 1 ug/l or 1 mg/l.
JMM = James M. Montgomery Laboratories (analyzed by Vista Laboratories for JMM)
B&C = Brown & Caldwell Laboratories

4.2 Spiked Sample Testing

A triplicate set of samples were spiked with benzene, toluene, ethylbenzene, xylenes, and hexavalent chromium (BTEX and CrVI, respectively) for submission to the primary and secondary laboratories as a QA/QC check. One set of spiked samples each were analyzed by JMM and B&C as well as TL who prepared the spikes, for volatile organic compounds and CrVI. The results of each analysis are tabulated in Table 4-2. Percent recoveries for BTEX and CrVI were similar for JMM and B&C, ranging from 77 - 110%, indicating an acceptable degree of accuracy.

4.3 Equipment Blank Testing

Equipment blanks were collected to verify that cross-contamination between wells did not occur during sampling. In accordance with the protocol outlined in the Kleinfelder QAPP, samples of distilled water were collected from the decontaminated sample pump/lines prior to sampling the first well and after each third well thereafter. In addition, water was sampled from both the steam cleaner and the 55-gallon barrel used to contain the deionized water (DIW) used in the decontamination procedures. The water sample collected from the steam cleaner was obtained from the end of the discharge nozzle and analyzed for purgeable halogenated and aromatic volatile organic compounds by EPA Methods 601/602. Results of equipment blank analyses are shown in Table 4-3. The collection sequence of equipment blanks and monitoring well samples along with some select analytical results are shown in Table 4-4.

Results from the volatile organic analyses of the equipment blanks and the steam cleaner indicate that even though slightly elevated levels of certain compounds were detected from these sources, it is unlikely that cross-contamination between wells occurred. In the majority of the cases, concentrations of these compounds were higher in ground water sample groups than the preceding equipment blank. In addition, although the steam cleaner showed bromoform at a level of 2.8 ug/l, this compound was not detected in any other samples.

TABLE 4-2

SPIKED SAMPLE ANALYSES
JANUARY 1989 QUARTERLY SAMPLING
SOUTHERN CALIFORNIA CHEMICAL

Compound	JMM Detected Concentration	JMM % Recovery	B&C Detected Concentration	B&C % Recovery	TL Detected Concentration
Hexavalent Chromium (mg/l)	1.0	100	0.9	90	1.0
Purgeable Aromatics					
Benzene (mg/l)	72	77	82	88	93
Toluene (mg/l)	150	99	160	106	151
Ethylbenzene (mg/l)	39	85	36	78	46
Total Xylenes (mg/l)	240	101	260	110	237
Purgeable Halocarbons					
Chloromethane (ug/l)	ND .2	—	ND 5	—	ND .5
Bromomethane (ug/l)	ND .2	—	ND 5	—	ND .5
Vinyl Chloride (ug/l)	ND .2	—	ND 5	—	ND .5
Chloroethane (ug/l)	ND .2	—	ND 5	—	ND .5
Methylene Chloride (ug/l)	ND .2	—	ND 5	—	ND .5
1,1-Dichloroethene (ug/l)	ND .2	—	ND 5	—	ND .5
1,1-Dichloroethane (ug/l)	ND .2	—	ND 5	—	ND .5
Trans-1,2-Dichloroethene (ug/l)	ND .2	—	ND 5	—	ND .5
Chloroform (ug/l)	ND .2	—	ND 5	—	ND .5
1,2-Dichloroethane (ug/l)	ND .2	—	ND 5	—	ND .5
1,1,1-Trichloroethane (ug/l)	ND .2	—	ND 5	—	ND .5
Carbon Tetrachloride (ug/l)	ND .2	—	ND 5	—	ND .5
Trichlorofluoromethane (ug/l)	ND .2	—	ND 5	—	ND .5
1,2-Dichloropropane (ug/l)	ND .2	—	ND 5	—	ND .5
Trichloroethene (ug/l)	ND .2	—	ND 5	—	ND .5
Dibromochloromethane (ug/l)	ND .2	—	ND 5	—	ND .5
1,1,2-Trichloroethane (ug/l)	ND .2	—	ND 5	—	ND .5

TABLE 4-2
(continued)

SPIKED SAMPLE ANALYSES
JANUARY 1989 QUARTERLY SAMPLING
SOUTHERN CALIFORNIA CHEMICAL

Compound	JMM Detected Concentration	JMM % Recovery	B&C Detected Concentration	B&C % Recovery	TL Detected Concentration
Cis-1,3-Dichloropropene (ug/l)	ND .2	—	ND 5	—	ND .5
2-Chloroethylvinylether (ug/l)	ND .2	—	ND 5	—	ND .5
Bromoform (ug/l)	ND .2	—	ND 5	—	ND .5
Tetrachloroethene (ug/l)	ND .2	—	ND 5	—	ND .5
1,1,2,2-Tetrachloroethane (ug/l)	ND .2	—	ND 5	—	ND .5
Chlorobenzene (ug/l)	ND .2	—	ND 5	—	ND .5
Bromodichloromethane (ug/l)	ND .2	—	ND 5	—	ND .5
1,2-Dichlorobenzene (ug/l)	ND .2	—	ND 5	—	ND .5
1,3-Dichlorobenzene (ug/l)	ND .2	—	ND 5	—	ND .5
1,4-Dichlorobenzene (ug/l)	ND .2	—	ND 5	—	ND .5
Dichlorodifluoromethane (ug/l)	ND .2	—	ND 5	—	ND .5
Trans-1,3-Dichloropropene (ug/l)	ND .2	—	ND 5	—	ND .5

NOTE: ND 1 = Compound was not detected at either 1 ug/l or 1 mg/l.
JMM = James M. Montgomery Laboratories (analyzed by Vista Laboratories, Wheat Ridge, CO, for JMM)
B&C = Brown & Caldwell Laboratories
TL = Truesdail Laboratories

TABLE 4-3 EQUIPMENT and TRAVEL BLANK ANALYSES

January 1989 Quarterly Sampling
Southern California Chemical

HALOGENATED VOLATILE ORGANIC COMPOUNDS *
(Concentrations in ug/l)

COMPOUND	SPK1	SC01	EB1	EB02	EB03	EB04	TB01	TB02	TB03	TB04	TB05	TB06	TB07
Dichlorodifluoromethane	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Methyl Chloride	ND 0.2	ND 0.2	9.7	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Vinyl Chloride	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Methyl Bromide	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Chloroethane	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Trichlorofluoromethane	ND 0.2	ND 0.2	ND 0.5	ND 0.2	ND 0.2	ND 0.2	ND 0.5	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1-Dichloroethene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Methylene Chloride	ND 0.2	ND 0.2	ND 1.0	2	2.7	2.1	2.8	5.9	2.3	5	4.3	ND 0.2	ND 0.2
trans-1,2-Dichloroethene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1-Dichloroethane	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Chloroform	ND 0.2	ND 0.2	0.4	ND 0.2	1.3	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	0.27
1,1,1-Trichloroethane	ND 0.2	ND 0.2	0.3	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Carbon Tetrachloride	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,2-Dichloroethane	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Trichloroethene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,2-Dichloropropane	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Dichlorobromoethane	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
2-Chloroethylvinylether	ND 0.2	ND 0.2	ND 10.0	ND 0.2	ND 0.2	ND 0.2	ND 10.0	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
cis-1,3-Dichloropropene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
trans-1,3-Dichloropropene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1,2-Trichloroethane	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Tetrachloroethene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Dibromochloroethane	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Chlorobenzene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
Bromoform	ND 0.2	2.8	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,1,2,2-Tetrachloroethane	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,3-Dichlorobenzene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,4-Dichlorobenzene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2
1,2-Dichlorobenzene	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.1	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2	ND 0.2

* Analyzed for Montgomery Laboratories by Vista Laboratories, Wheat Ridge, Colorado.

TABLE 4-3 EQUIPMENT and TRAVEL BLANK ANALYSES (cont'd)

				January 1989 Quarterly Sampling									
				Southern California Chemical									
				AROMATIC VOLATILE ORGANIC COMPOUNDS *									
				(Concentrations in ug/l)									
COMPOUND	SPK1	SC01	EB1	EB02	EB03	EB04	TB01	TB02	TB03	TB04	TB05	TB06	TB07
1,3-Dichlorobenzene	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
1,4-Dichlorobenzene	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
1,2-Dichlorobenzene	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
Total Xylenes	**240**	ND 1.0	ND 0.1	**2.3**	ND 0.5	ND 1.0	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 1.0	**1.3**	**1.4**
Benzene	**72**	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
Toluene	**150**	ND 0.5	ND 0.1	**0.86**	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
Ethylbenzene	**39**	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.1	ND 0.5	ND 0.5	ND 0.5	ND 0.5	**1.5**	**2.8**

* Analyzed for Montgomery Laboratories by Vista Laboratories, Wheat Ridge, Colorado.

TABLE 4-4

SAMPLING SEQUENCE
JANUARY 1989 QUARTERLY SAMPLING
SOUTHERN CALIFORNIA CHEMICAL

Sample Number	Toluene (mg/l)	Methylene Chloride (ug/l)	Chloroform (ug/l)	Bromoform (ug/l)	Zinc (mg/l)
EB01	ND .1	9.7	0.4	ND .2	NA
MW01	ND .1	ND 1.0	0.2	ND .2	0.015
DIW01	NA	NA	NA	NA	0.007
MW02	ND .5	ND .2	ND .2	ND .2	ND .006
SC01	ND .5	ND .2	ND .2	2.8	NA
MW05	ND .5	2.1	7.4	ND .2	ND .006
EB02	0.86	2.0	ND .2	ND .2	NA
MW07	1.4	2.2	ND .2	ND .2	ND .006
MW06B	ND .5	ND .2	ND .2	ND .2	0.021
MW08	ND .5	ND .2	ND .2	ND .2	0.009
EB03	ND .5	2.7	1.3	ND .2	NA
MW09	ND .5	16	8.9	ND .2	0.008
MW03	17	3.2	13	ND .2	ND .006
MW04	10	14	3.7	ND .2	0.007
EB04	ND .5	2.1	ND .2	ND .2	NA
MW11	ND .5	1.0	0.88	ND .2	ND .006
MW10	ND .5	ND .2	ND .2	ND .2	ND .006
MW04a	ND .5	ND .2	ND .2	ND .2	0.008

The metals analyses for the DIW from the 55-gallon barrel resulted in the detection of 0.007 mg/l of Zinc, at a laboratory detection limit of 0.006 mg/l. Although ground water analyses for various wells resulted in very low detectable concentrations ranging between 0.007 and 0.021 mg/l, it appears unlikely that the DIW would contribute to these values since the DIW supply in the barrel was periodically replenished with fresh DIW. In addition, the sample pump/lines were flushed with ground water during the purging of three to five well volumes prior to sampling.

4.4 Travel Blank Testing

The detection of compounds in travel blanks is generally indicative of systematic contamination from sample transport, laboratory glassware cleaning, laboratory storage, or analytical procedures. For each day of sampling, one laboratory prepared travel blank consisting of organic-free water was labeled and submitted for purgeable halocarbon and aromatic volatile organic analysis by EPA Methods 601/602. Table 4-3 shows the results of travel blank analyses. Each travel blank was stored with the days' samples to be analyzed for volatile organic compounds. Analyses of seven travel blanks resulted in detected concentrations of ethylbenzene between 1.5 - 2.8 mg/l, methylene chloride between 2.3 - 5.9 ug/l, and chloroform at 0.27 ug/l. At the time of this printing, it was not known whether the presence of methylene chloride represents a laboratory artifact which is a relatively common phenomenon.

4.5 Sample Control

All samples were labeled immediately prior to sampling with a waterproof pen. Samples were transported under chain-of-custody and hand delivered by CDM personnel to the laboratories in ice-cooled chests. Copies of the chain-of-custody records are included in Appendix F.

5.0 GROUND WATER ELEVATION

Prior to sampling the ground water, the depth to the static water level was measured in each monitoring well. Ground water elevations were calculated by subtracting the depth to static water level from the surveyed elevation of the corresponding monitor well. The elevation of the ground water surface had declined at each well since the September 1988 Quarterly Sampling. This decrease ranged between 0.84 - 2.46 feet, with an average decrease of 1.52 feet. These elevations appear to correspond to a depth of 1 to 3 feet below the lower surface of the aquitard that forms the upper confining boundary of the Hollydale Aquifer. This indicates that although the Hollydale Aquifer is considered a confined aquifer, it was under reduced confining pressure during the January 1989 sampling. This is consistent with the overall trend in declining water elevations in the Hollydale aquifer since investigations began in February 1985. As has been observed during prior sampling events, no water was detected in monitoring well MW06a which is screened in the Gage formation.

Table 5-1 lists the depths to water table and calculated water table elevations for each well. Figure A-2 shows the approximate ground water surface elevation of the Hollydale Aquifer. The curvature of the ground water contours shown appear somewhat exaggerated due to linear plotting of data which has an error factor of $\pm$ several tenths of a foot. This factor could potentially be attributable to user error in measuring the water depths in wells or to an erroneous data base of casing elevations. At this point, expectations are that all wells will be resurveyed when new wells are installed during the forthcoming RCRA facility investigation. In spite of potential error, the contours still indicate a southwest regional ground water gradient.

TABLE 5-1

GROUND WATER ELEVATION DATA
JANUARY 1989 QUARTERLY SAMPLING
SOUTHERN CALIFORNIA CHEMICAL

Well No.	Headspace* (ppm) Well/Background Air	Total Depth (Constructed) (ft)	Total Depth (Measured) (ft.)	Casing Fill (ft)	M.P. Elevation (ft)	G.W. Depth (ft)	G.W. Elevation (ft)
1	2.0/0.0	62.50	61.67	0.83	152.6	55.86	96.74
2	1.1/0.2	74.50	70.09	4.41	151.56	56.29	95.27
3	—/—	75.00	70.41	4.59	151.62	56.60	95.02
4	16/4.7*	75.00	67.03	7.97	149.76	59.55	95.21
4a	75/—	107.00	108.37	0	152.49	57.36	95.13
						(rose 1.94 ft)	
5	11.3/0.0	75.00	72.14	2.86	153.21	59.07	94.14
						(rose 2.4 ft)	
6a	6/3*	30.50	28.49	2.01	149.31	28.49 (dry)	120.82 (dry)
6b	6/3*	77.50	74.87	2.63	149.46	54.34	95.12
7	6/5*	75.50	74.39	1.11	149.27	59.80	89.47
8	25/6*	76.00	69.57	6.43	149.53	54.69	94.84
9	22/2*	78.00	73.08	4.92	151.14	55.59	95.55
10	135/1	75.00	73.92	1.08	151.60	55.89	95.71
11	337/2	76.00	75.65	0.35	152.80	56.83	95.97

M.P. = Measuring Point

G.W. = Groundwater

* = Measured with PID prior to sampling

6.0 GROUND WATER QUALITY

Based upon the results of laboratory testing performed on the ground water samples collected from the on-site monitor wells, the presence of two contaminant plumes in the Hollydale Aquifer have been reaffirmed. Historically, these plumes have been present at varying concentrations and lateral extent. One plume, consisting primarily of site-specific chemicals, is aligned in a northeasterly direction in the vicinity of MW04 and MW09. The other, consisting of organic compounds, is similarly aligned along the northern boundary of the site property with the highest concentrations found in MW03, MW04, and MW11.

6.1 Site-Specific Indicator Chemicals

Hexavalent Chromium (CrVI)

Elevated levels of CrVI were found to be present in MW04 and MW09 during the January 1989 sampling. CrVI was originally detected in MW04 at a concentration of 500 mg/l in June, 1985, and has fluctuated between 84 and 500 mg/l since. The concentration of CrVI in MW04 decreased since the September 1988 sampling. In September 1986, CrVI in MW09 was detected at a concentration of 0.05 mg/l, with fluctuations between 0.05 and 1.50 mg/l since. The concentration of CrVI has decreased in MW09 since the September 1988 sampling. CrVI was detected in MW04a at a concentration of 0.01 mg/l, just at the detection limit for that chemical. No other analyses showed concentrations of CrVI in ground water samples above the detection limit of 0.01 mg/l in January 1989. Figure A-3 shows the concentrations of CrVI detected in each well during the sampling.

The data in Table 3-1 shows hexavalent chromium (0.45 mg/l) in ground water samples from MW-09 to be of a greater concentration than total chromium (0.33 mg/l). The suspect nature of these results is at least partially explained by the percent recovery of each respective sample. Recovery for total chromium analysis ranged from 82 to 86%, whereas recovery for hexavalent chromium analysis was 105%. Respective increases and decreases in the two recoveries would group each of the two detections in the

neighborhood of 0.4 mg/l. Additional variation may be attributable to analytical limitations.

Total Chromium (CrT)

Historically, CrT has been present at elevated concentrations in ground water samples collected from monitoring wells MW04 and MW09. CrT was initially detected in MW04 at a concentration of 500 mg/l in June 1985, with fluctuations between 61 and 550 mg/l since. CrT was initially detected in MW09 at a concentration of 0.12 mg/l in June 1987, with fluctuations between 0.12 and 2.75 mg/l since. In January 1989, the concentrations for CrT increased in MW04, and decreased in MW09 since the September 1988 sampling. Figure A-4 shows the concentrations of CrT detected in each well during the sampling.

In previous reports (February 1988, June 1988) Kleinfelder attributed the apparent rise in CrT concentrations after February 1988 to a change in sample preparation, and not a change in ground water quality. B&C, the laboratory that Kleinfelder selected as their analytical laboratory prior to February 1988, used a modification of EPA Method 3010 sample preparation in which the sample was not mixed prior to analysis. CRL, the laboratory that Kleinfelder selected as their analytical laboratory beginning in February 1988, prepared samples in strict accordance with EPA Method 3010. This method requires that samples are well-mixed, keeping all solids in suspension prior to removal of the sample from the sample container. It was believed that this mixing of the sample yielded CrT concentrations that included suspended sediments. Hence, Kleinfelder began in May 1988, the practice of field filtering the ground water samples to be analyzed for metals through a 0.45-micron screen. All samples collected for metals analyses during the January 1989 sampling were filtered in the field using a sterile 0.45-micron filter.

Cadmium (Cd)

To date, cadmium has only been detected in ground water samples collected from monitoring well MW04. Cadmium was initially detected in MW04 at a

concentration 0.78 mg/l in June 1985. Concentrations have varied from non-detection at 0.1 mg/l in June 1987 to 0.92 mg/l in July 1985. The concentration of cadmium decreased since the September 1988 quarterly sample from 0.12 mg/l to 0.028 mg/l. Figure A-5 shows the concentrations of cadmium detected in MW04 during the sampling.

Zinc (Zn)

Isolated detections of zinc in ground water have occurred in samples from each well since the inception of the quarterly ground water monitoring program. Concentrations have ranged from non-detections at less than 0.001 mg/l to 0.35 mg/l. The most consistent detections have occurred in ground water samples collected from monitoring well MW01. The concentration of zinc in MW01 decreased from 0.08 mg/l in September 1988 to 0.015 mg/l in January 1989. At these low levels, the occurrence of zinc does not appear to be of significant concern. Figure A-6 shows the concentrations of zinc detected in each well during the January 1989 sampling.

6.2 Organic Compounds

Reportedly, organic chemicals have not historically been used on-site by SCC. However, organic compounds have been detected in ground water under the facility in the Hollydale aquifer, varying in both concentration and lateral extent. Concentration of volatile organic compounds at monitoring well MW03 have increased since the September 1988 sampling. Ethylbenzene concentrations increased from 1,000 ug/l to 4,900 ug/l, total xylenes from 200 ug/l to 1,500 ug/l, and toluene from ND 25 ug/l to 17 ug/l. Concentrations of trichloroethylene decreased from 150 ug/l to 74 ug/l. A review of analytical records of MW03 indicates that high concentrations of ethylbenzene and total xylenes were detected during the February 1988 sampling period as well. The concentration of ethylbenzene at MW11 has declined moderately since the September 1988 sampling from 130 ug/l to 43 ug/l, and trichloroethylene increased insignificantly from 30 ug/l to 34 ug/l. Figures A-7 through A-10 show the concentrations of ethylbenzene, total xylenes, toluene and trichloroethylene, respectively, that were detected in each well during the January 1989 sampling.

Assessment Quarterly Groundwater Monitoring Program

To date, CDM has implemented the field sampling protocols outlined in the Kleinfelder QAPP. This was also the case with the April 1989 sampling period. At this point in time, the Kleinfelder QAPP lacks regulatory approval. CDM has also submitted for regulatory approval a Sampling and Analysis Plan, a Quality Assurance/Quality Control Plan, a Health and Safety Plan, and a Data Management Plan as components of the RCRA Facility Investigation (RFI) Workplan promulgated by an Administrative Order on Consent, dated December 8, 1988 by EPA. When these documents are granted final approval, subsequent quarterly ground water sampling programs will follow the specifications and procedures which are contained therein. CDM offers no warranty, expressed or implied, as to the adequacy, accurateness, or appropriateness of the unapproved Kleinfelder QAPP. This document was used as guidance simply on the basis of it being the status quo guidance document for quarterly sampling procedures at SCC in lieu of the approval of an RFI-approved document designed by CDM.

APPENDIX A

FIGURES

A-1 Monitoring Well Location Map

A-2 Ground Water Surface Elevation in the Hollydale Aquifer, January 1989

A-3 Concentration of Chromium (HEX) in Ground Water, January 1989

A-4 Concentration of Chromium (TOT) in Ground Water

A-5 Concentration of Cadmium in Ground Water

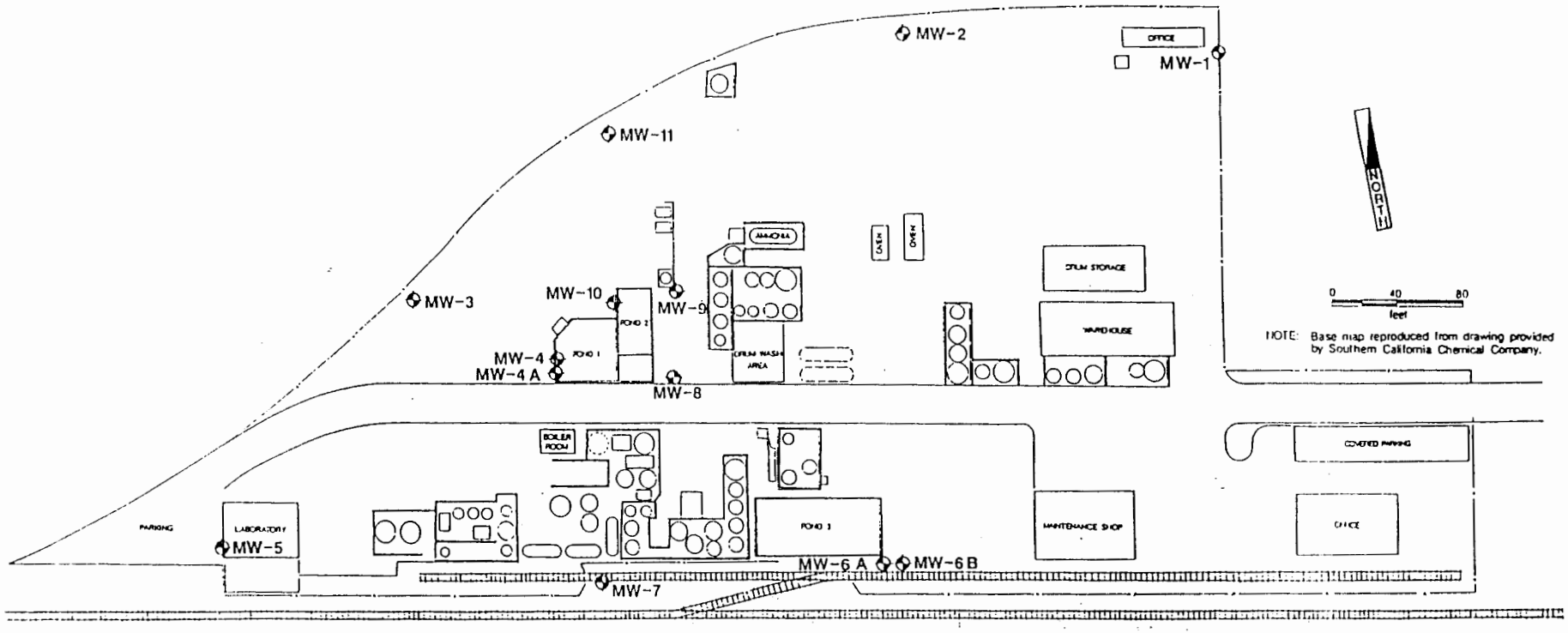
A-6 Concentration of Zinc in Ground Water

A-7 Concentration of Ethylbenzene in Ground Water

A-8 Concentration of Total Xylenes in Ground Water

A-9 Concentration of Toluene in Ground Water

A-10 Concentration of Trichloroethylene in Ground Water



EXPLANATION

MONITORING WELL, estimated location

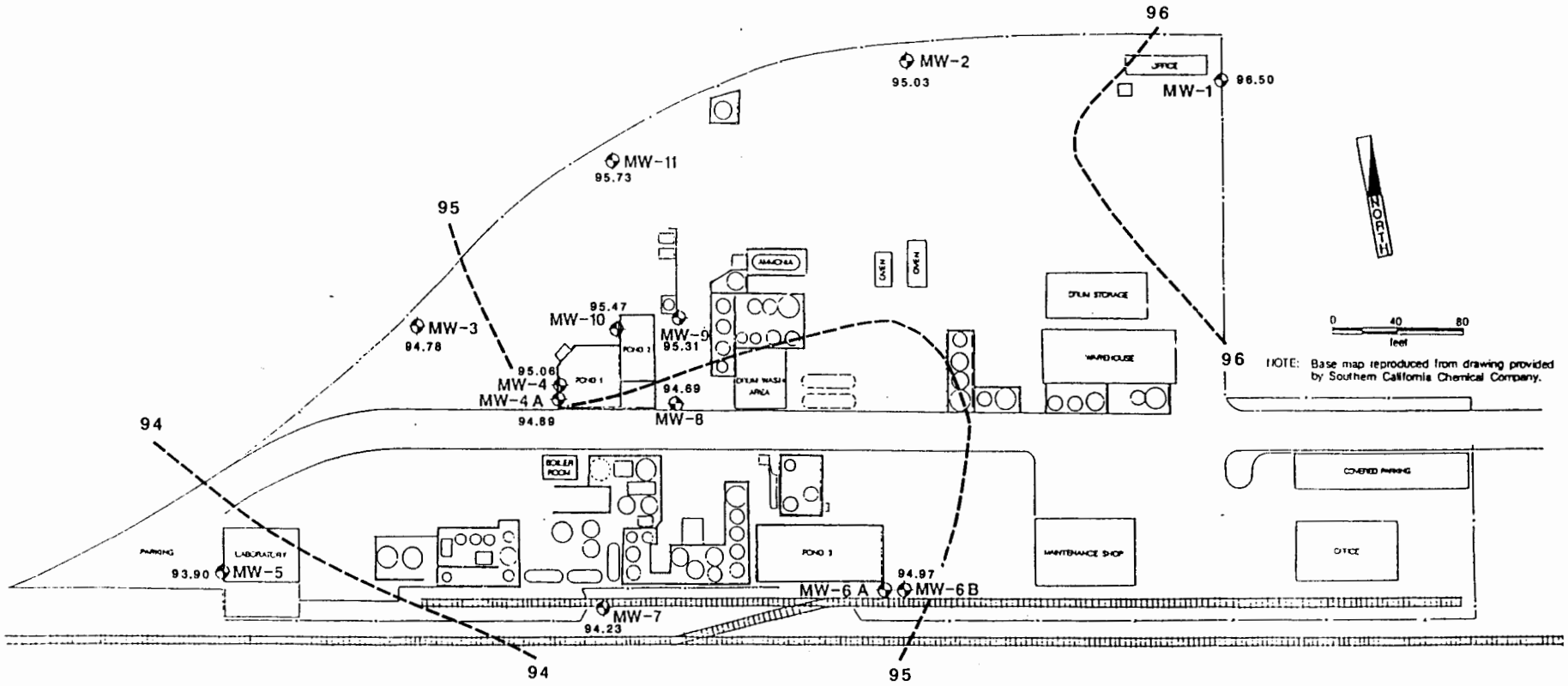
Map adapted from Kleinfelder (8/87)

SOUTHERN CALIFORNIA CHEMICAL

MONITORING WELL
LOCATION MAP
JANUARY 1989

CDM

FIGURE A-1



EXPLANATION

MONITORING WELL, estimated location

Approximate Ground Water Surface Elevation in Feet (MSL)

Map adapted from Kleinfelder (8/87)

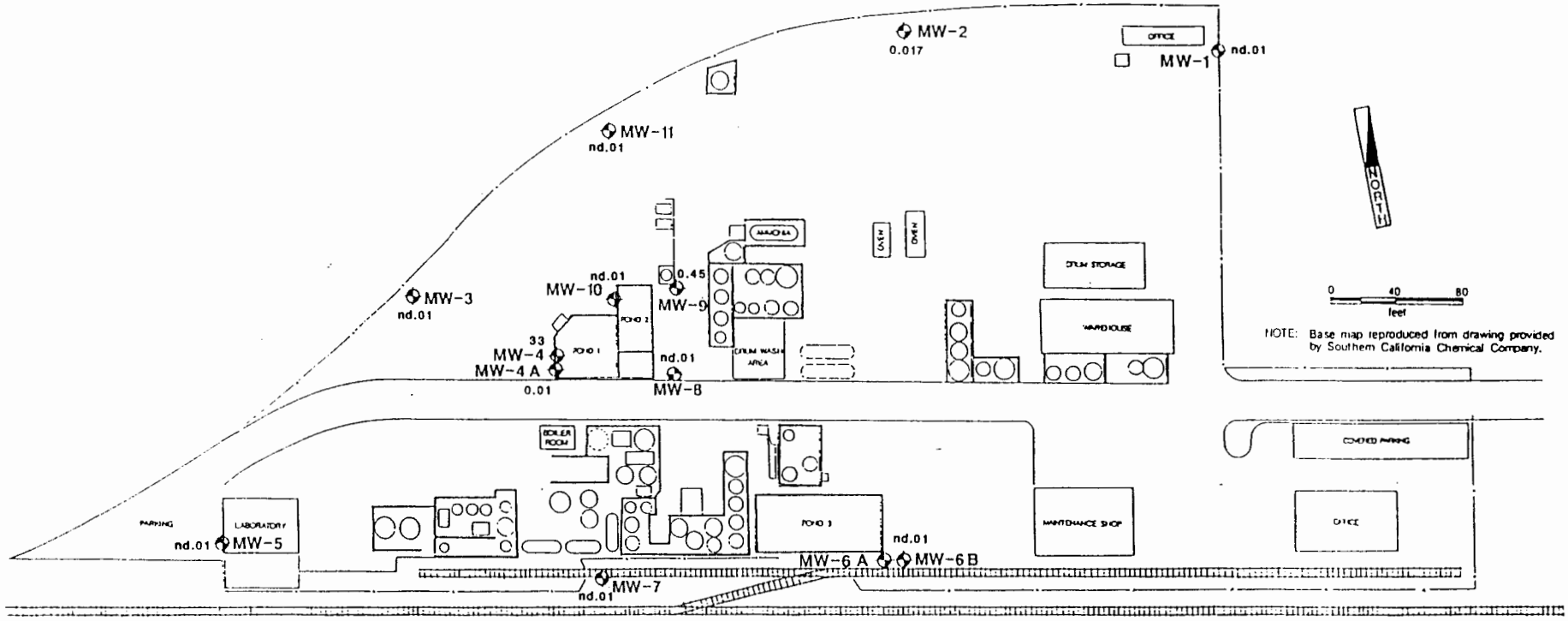
SOUTHERN CALIFORNIA CHEMICAL

GROUND WATER SURFACE ELEVATION IN THE HOLLYDALE AQUIFER

JANUARY 1989

CDM

FIGURE A-2



EXPLANATION

MONITORING WELL, estimated location

VALUES IN MG/L

Map adapted from Kleinfelder (8/87)

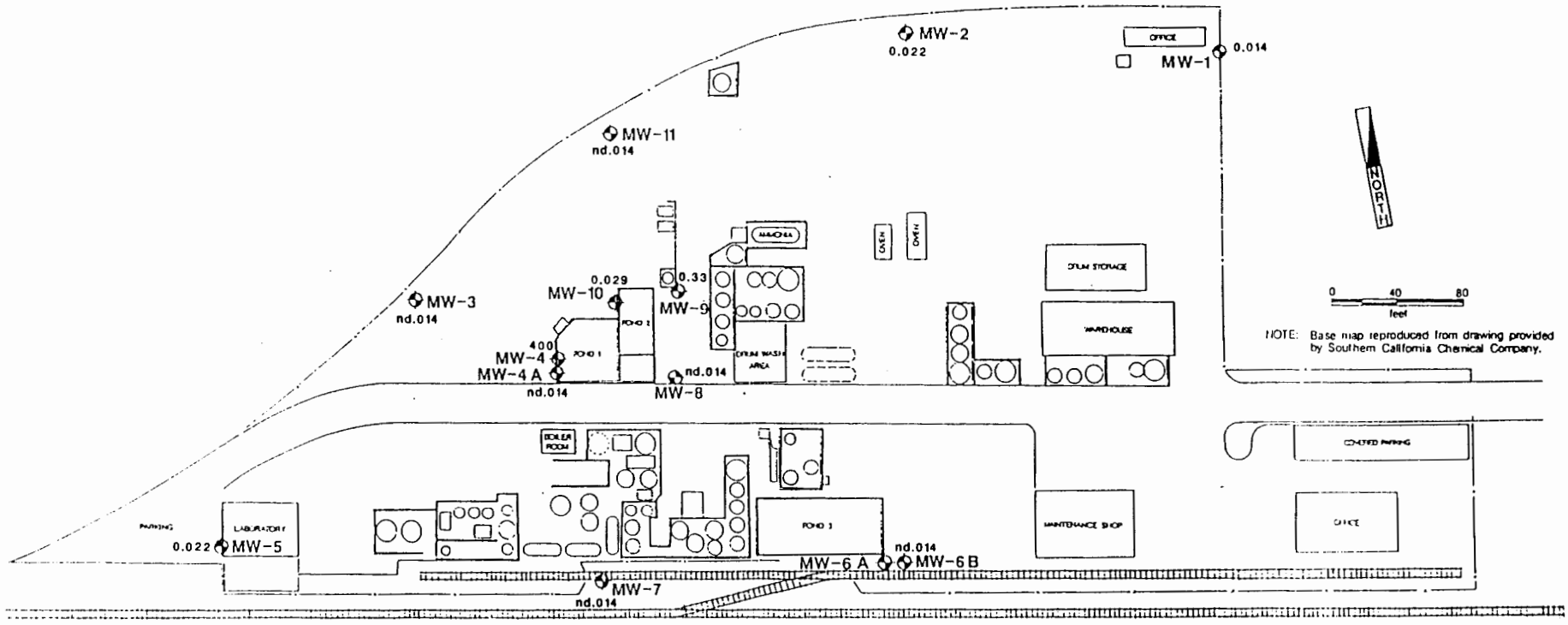
SOUTHERN CALIFORNIA CHEMICAL

CONCENTRATION OF CHROMIUM (hex) IN GROUNDWATER

JANUARY 1989

CDM

FIGURE A-3



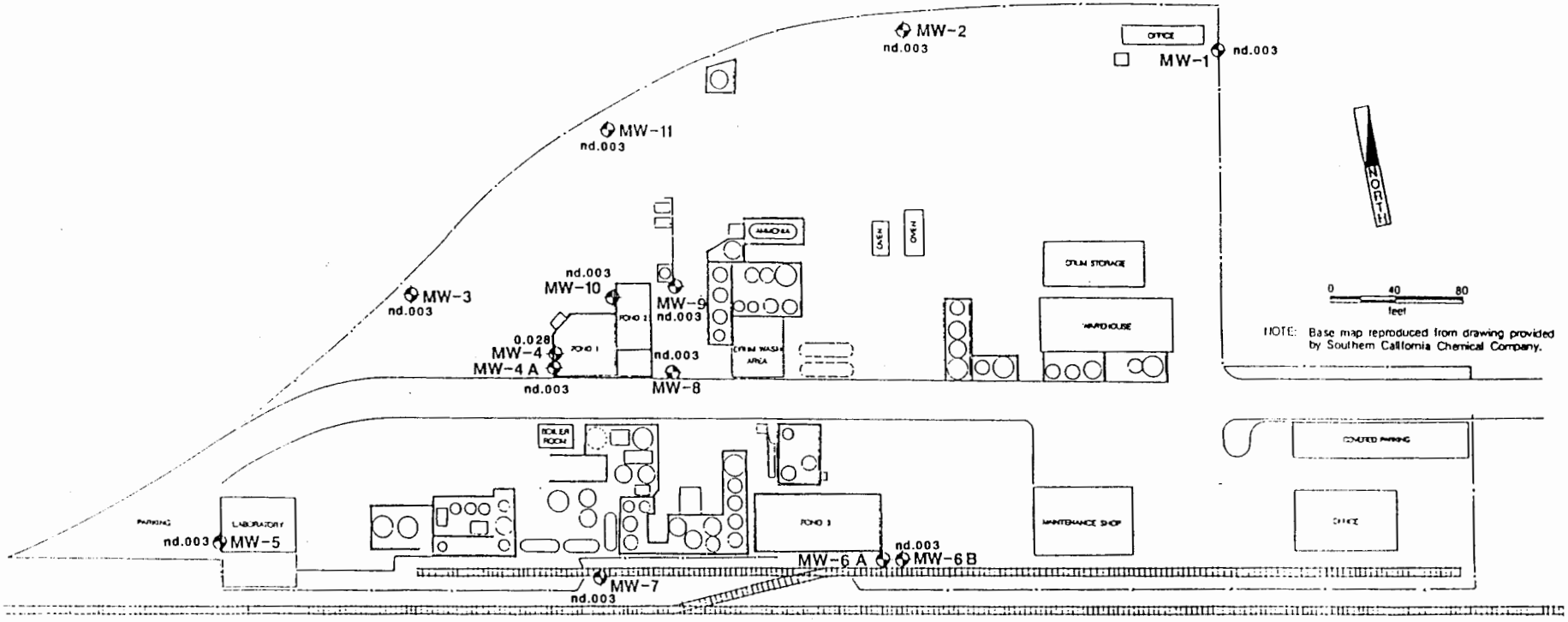
EXPLANATION

MONITORING WELL, estimated location

VALUES IN MG/L

Map adapted from Kleinfelder (8/87)

SOUTHERN CALIFORNIA CHEMICAL	
CONCENTRATION OF CHROMIUM (tot) IN GROUNDWATER JANUARY 1989	
CDM	FIGURE A-4



EXPLANATION

MONITORING WELL, estimated location

VALUES IN MG/L

Map adapted from Kleinfelder (8/87)

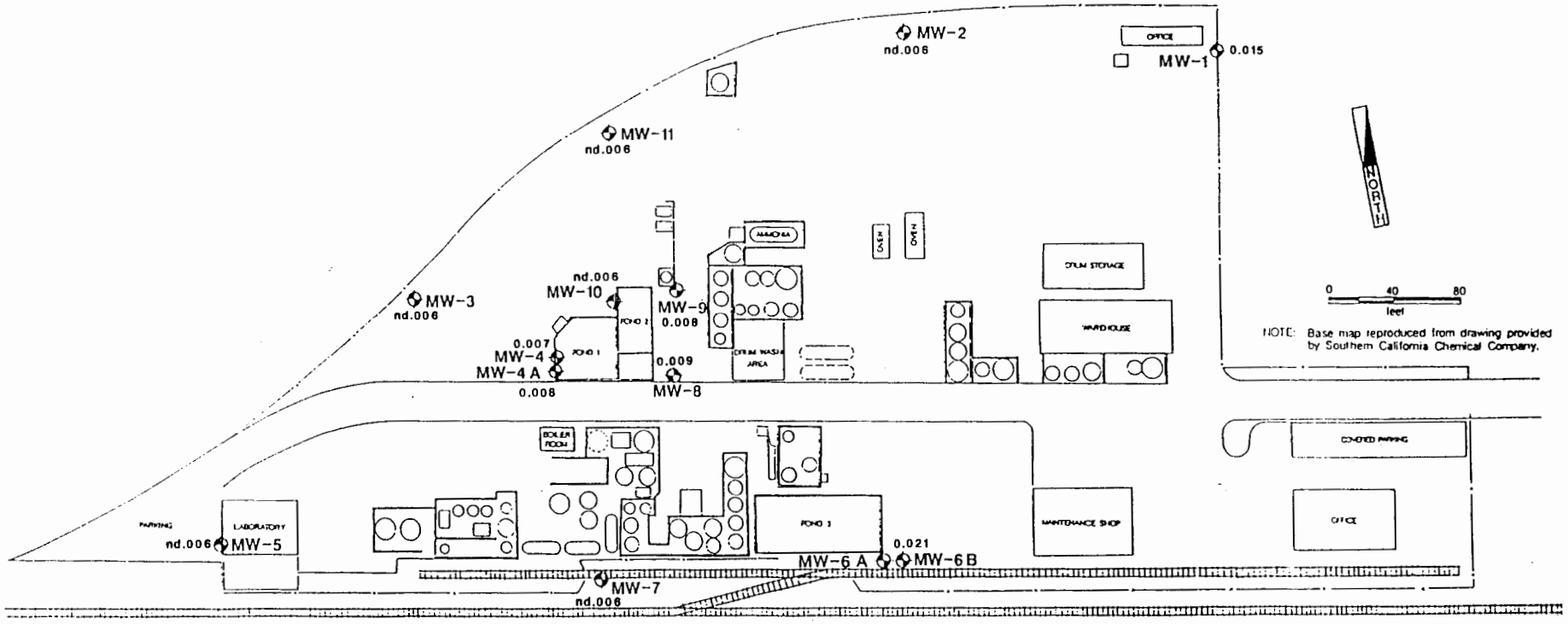
SOUTHERN CALIFORNIA CHEMICAL

CONCENTRATION OF CADMIUM IN GROUNDWATER

JANUARY 1989

CDM

FIGURE A-5



EXPLANATION

MONITORING WELL, estimated location

VALUES IN MG/L

Map adapted from Kleinfelder (5/87)

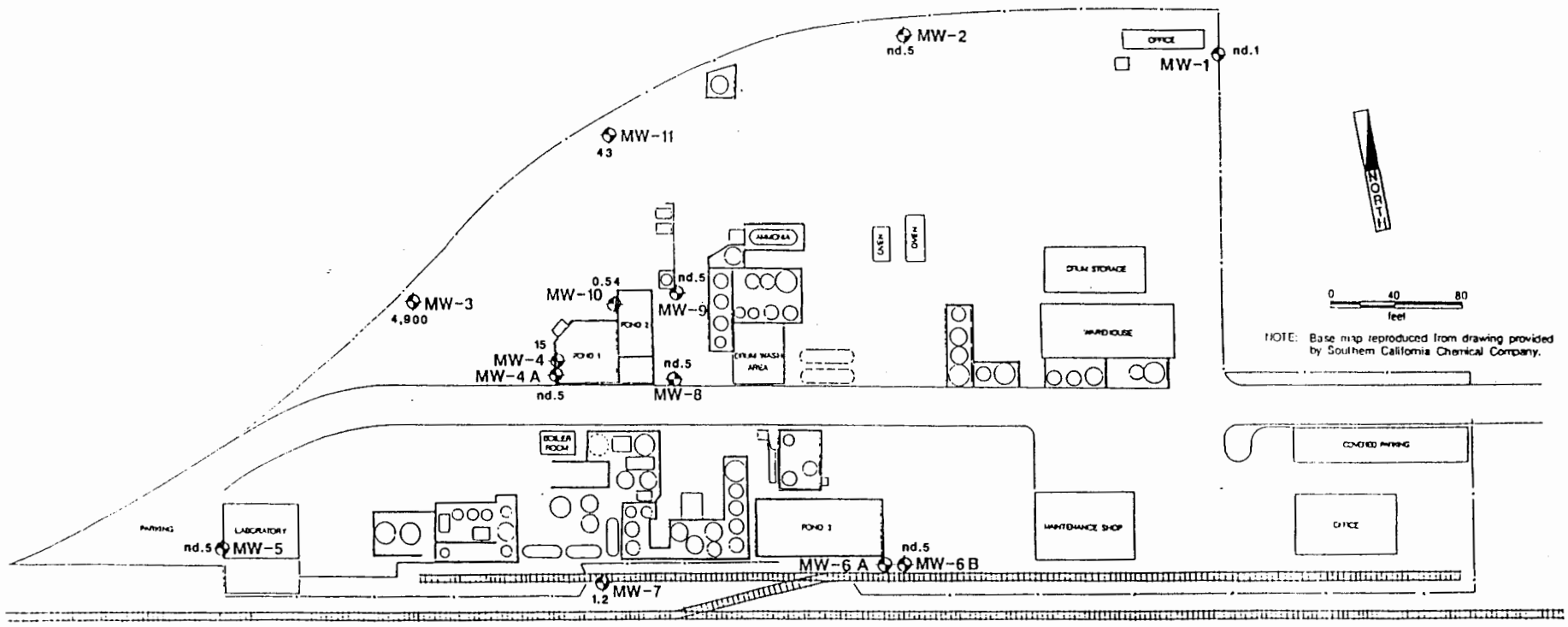
SOUTHERN CALIFORNIA CHEMICAL

CONCENTRATION OF ZINC IN GROUNDWATER

JANUARY 1989

CDM

FIGURE A-6



EXPLANATION

MONITORING WELL, estimated location

VALUES IN ug/l

Map adapted from Kleinfelder (8/87)

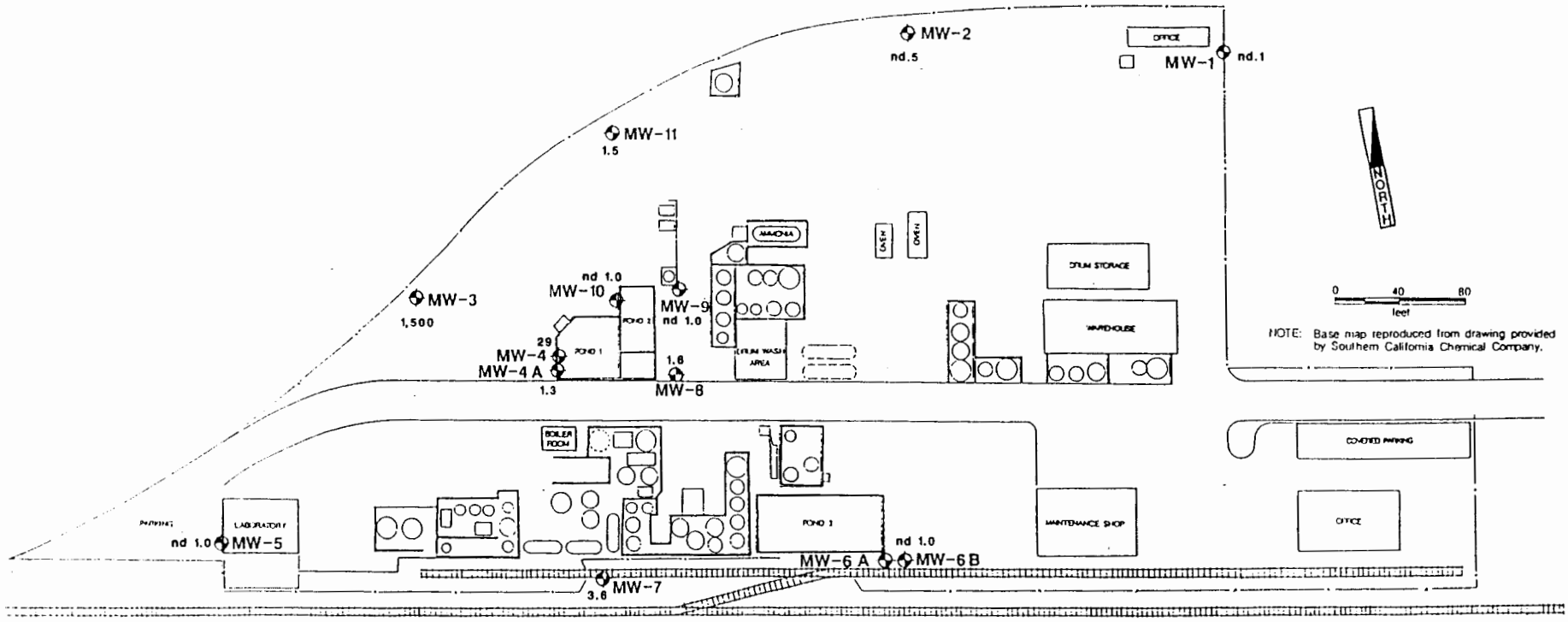
SOUTHERN CALIFORNIA CHEMICAL

CONCENTRATION OF ETHYLBENZENE IN GROUNDWATER

JANUARY 1989

CDM

FIGURE A-7



EXPLANATION

MONITORING WELL, estimated location

VALUES IN ug/l

Map adapted from Kleinfelder (6/87)

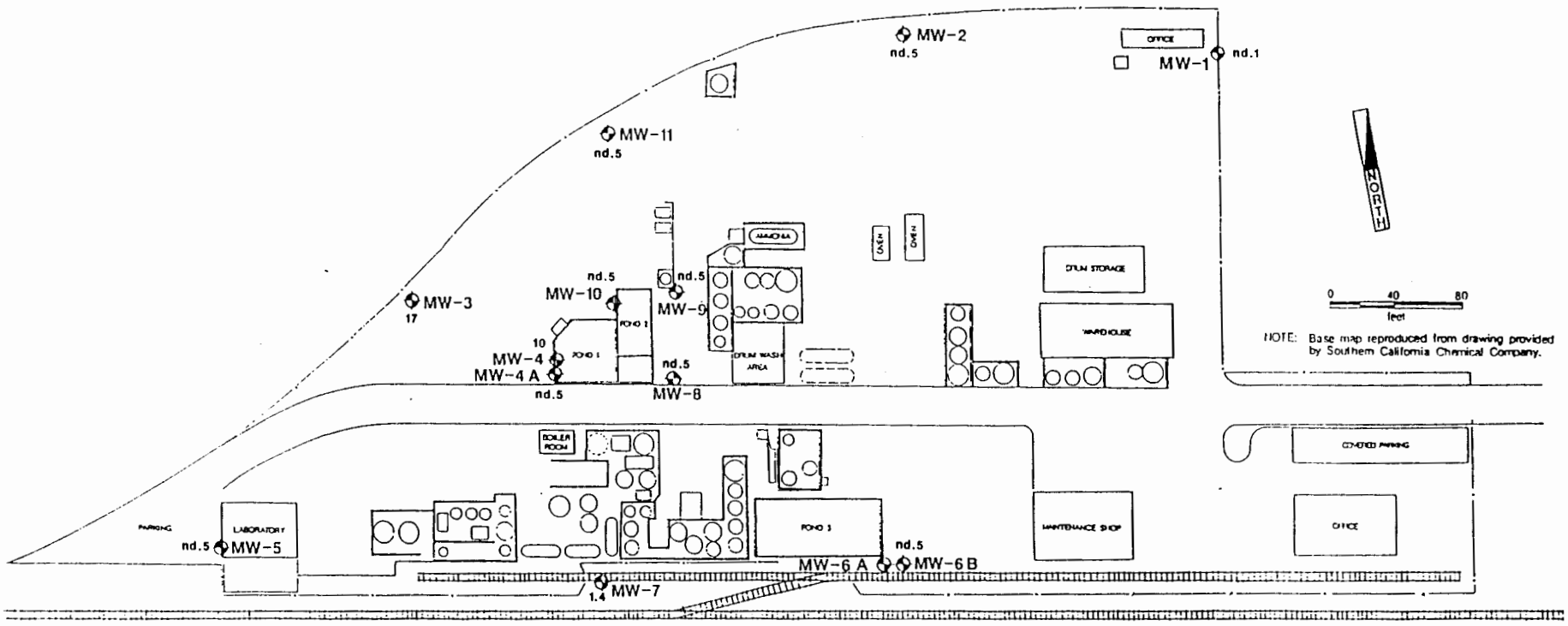
SOUTHERN CALIFORNIA CHEMICAL

CONCENTRATION OF TOTAL XYLENES IN GROUNDWATER

JANUARY 1989

CDM

FIGURE A-8



EXPLANATION

MONITORING WELL, estimated location

VALUES IN ug/l

Map adapted from Kleinfelder (8/87)

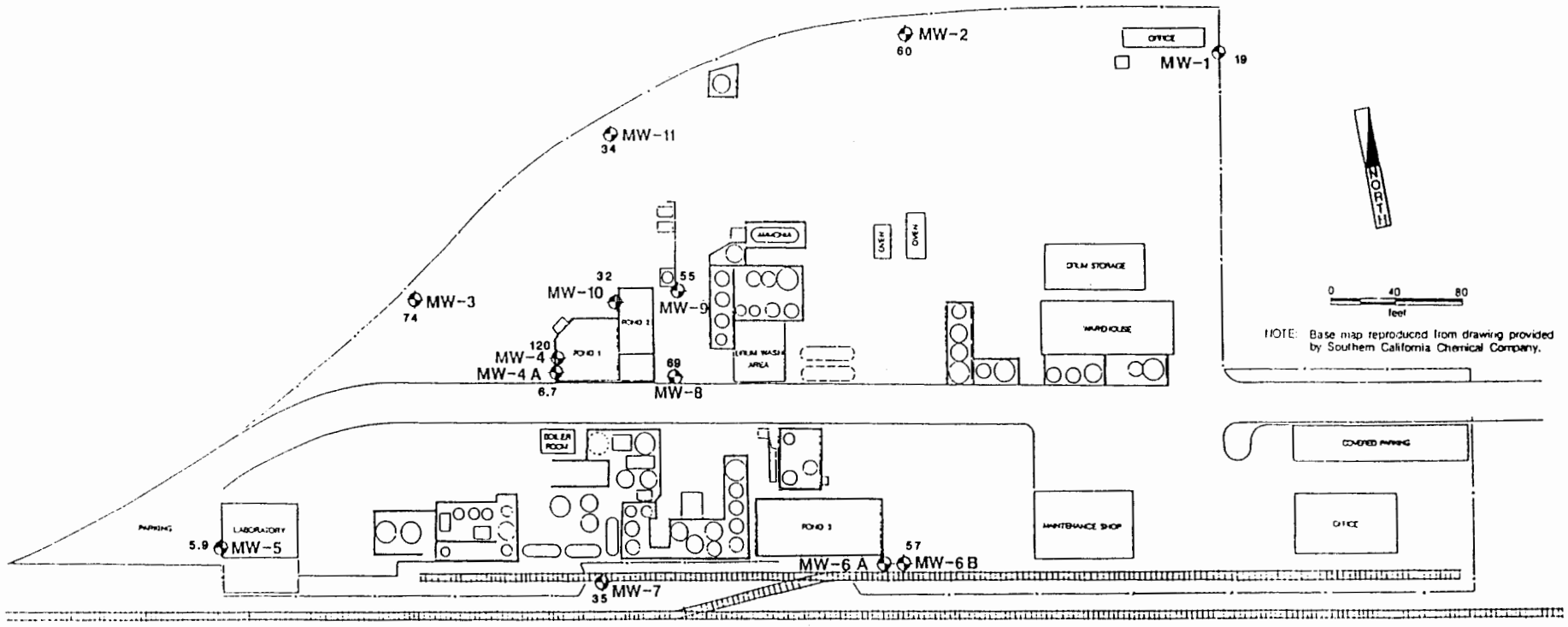
SOUTHERN CALIFORNIA CHEMICAL

CONCENTRATION OF TOLUENE IN GROUNDWATER

JANUARY 1989

CDM

FIGURE A-9



EXPLANATION

MONITORING WELL, estimated location

VALUES IN ug/l

Map adapted from Kleinfelder (8/87)

SOUTHERN CALIFORNIA CHEMICAL

CONCENTRATION OF TRICHLOROETHYLENE IN GROUNDWATER

JANUARY 1989

CDM

FIGURE A-10

APPENDIX B

HISTORICAL GROUND WATER ANALYSES DATA

TABLE 1
WATER-QUALITY DATA
MONITORING WELL #1
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)	7.3		7.1		7.2	7.0	7.38	6.8	7.0	6.9	7.1		7.05	
TOC (mg/l)	3.7		19		35	21	ND 3	ND 3	13	32	10		8.5	
TOX (mg/l)	ND.05		ND.08		ND.08	ND.08	ND.08	ND.08	ND.08	ND.08	0.1		0.038	
Sp. Cond. (umhos/cm)	2300		3400		1650	3600	3200	2800	3400	3800	2975		2500	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)	ND.0005		ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	0.08	ND.02	0.03	0.07
Chromium (HEX) (mg/l)	ND.05		ND.02		ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.05	ND.05
Cadmium (mg/l)	ND.0002		ND.009		ND.02	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)	ND.08		ND.02		ND.01	ND.04	ND.04	ND.02	0.10	ND.02	0.04			ND.02
Zinc (mg/l)	ND.019		0.18		0.04	ND.08	0.018	ND.03	0.06	ND.03	0.04		0.07	0.08
Chloride (mg/l)	330		300		650	920	700	570	720	770	430		460	630
Nitrate as N (mg/l)	7.0		3.7		0.5	1.3	4.06	5.3	ND.1	2.3	4.5		5.2	2.9
Nitrate as NO_3 (mg/l)	31		17		18	11	18	23	ND.4	11	19		23	
Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
1,1-Dichloroethylene (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
1,2-Dichloroethane (ug/l)			ND1		ND1	2	1	0.5	1	1	ND1		ND1	
Benzene (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND.7		ND.7	
Carbon Tetrachloride (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Chloroform (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Ethylbenzene (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Trichloroethylene (ug/l)			16		16	18	18	9	11	2.4	4		15	
Toluene (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Xylene (ug/l)			ND1		ND1	ND1		ND.5	ND.5	ND.5	ND1		ND1	
Methylene Chloride (ug/l)			ND1		ND1	ND1	ND1	ND2	ND.5	1.7	ND1		ND1	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 2
WATER-QUALITY DATA
MONITORING WELL #2
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)	7.0		7.4		7.7	7.4	7.68	7.1	7.1	7.12	7.27		7.35	
TOC (mg/l)	34		4.8		ND3	ND3	ND3	ND3	ND3	ND3	ND1		ND1	
TOX (mg/l)	ND.05		ND.08		ND.08	ND.08	ND.08	ND.08	ND.08	ND.08	0.04		0.032	
Sp. Cond. (umhos/cm)	2300		1900		1800	2100	2280	1900	3400	1500	1550		1500	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)	ND.0005	ND.033	ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	0.05	ND.02	ND.02	0.06
Chromium (HEX) (mg/l)	ND.05	ND.033	ND.03		ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.05	ND.05
Cadmium (mg/l)	ND.0002		ND.009		ND.01	ND.03	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)	ND.08		ND.02		ND.02	ND.04	ND.04	ND.02	ND.02	ND.02	0.04			ND.02
Zinc (mg/l)	ND.019		ND.03		ND.04	ND.08	0.021	ND.031	ND.031	ND.03	0.03		ND.02	0.03
Chloride (mg/l)	270		180		220	410	510	250	700	180	110		160	160
Nitrate as N (mg/l)	2.1		5.8		5.4	5.0	6.25	7.2	8.8	7.2	7.2		7.2	7.1
Nitrate as NO_3 (mg/l)	9.1		26		24	22	27.7	32	39	32	32		32	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)		4	3		ND1	5	9	21	20	2.5	ND1		ND1	
1,1-Dichloroethylene (ug/l)		3	ND1		ND1	3	5	0.9	11	0.94	ND1		ND1	
1,2-Dichloroethane (ug/l)		ND1	ND1		3	1	ND1	ND.5	2.2	ND.5	ND1		ND1	
Benzene (ug/l)		ND1	ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND.7		ND.7	
Carbon Tetrachloride (ug/l)		ND1	ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Chloroform (ug/l)		ND1	ND1		ND1	2	2	1	ND.5	0.73	ND1		ND1	
Ethylbenzene (ug/l)		ND1	ND1		3	2	ND1	ND.5	6.2	ND.5	ND1		ND1	
Trichloroethylene (ug/l)		21	22		12	38	67	20	93	40	5		23	
Toluene (ug/l)		ND1	ND1		3	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Xylene (ug/l)		ND1	ND1		2	ND1		ND.5	ND.5	ND.5	ND1		ND1	
Methylene Chloride (ug/l)		ND1	ND1		ND1	ND1	ND1	ND2	ND.5	11	ND1		ND1	

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 3
WATER-QUALITY DATA
MONITORING WELL #3
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)	7.4		7.0		7.2	7.2	7.55	6.9	7.0	5.9	6.78		7.10	
TOC (mg/l)	16		190		44	29	31	20.5	21	50	135		81	
TOX (mg/l)	0.17		ND.08		.18	.17	.21	.22	.15	.27	.10		0.24	
Sp. Cond. (umhos/cm)	1700		1500		2200	2200	2400	2300	2200	3300	1575		2100	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)	ND.0005	ND.033	ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	.08	ND.02	ND.02	0.07
Chromium (HEX) (mg/l)	ND.05	ND.033	ND.02		ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.4		ND.05	ND.05
Cadmium (mg/l)	ND.0002	ND.011	ND .009		ND.01	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)	ND.08		ND.02		ND.02	ND.04	ND.04	ND.02	ND.02	ND.02	ND.02		0.02	0.02
Zinc (mg/l)	ND.019		0.26		ND.04	ND.08	0.021	ND.031	ND.031	ND.03	ND.02		0.04	0.02
Chloride (mg/l)	170		76		400	520	550	420	380	740	190		350	840
Nitrate as N (mg/l)	3.0		ND 1		6.5	4.1	4.81	3.4	3.8	5.2	ND.2		2.7	4.8
Nitrate as NO_3 (mg/l)	13		ND4.4		29	18	21.3	15	17	23	ND1		12	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)													
1,1-Dichloroethane (ug/l)	6	ND50	5	4	5	5	4	1.6	6.9	ND10		ND50	ND25
1,1-Dichloroethylene (ug/l)	14	ND50	11	7	13	17	7.8	3.9	15	ND10		ND50	ND25
1,2-Dichloroethane (ug/l)	ND1	ND50	9	6	7	11	18	2.11	ND.5	36		ND50	ND25
Benzene (ug/l)	9	ND50	3	ND1	3	2	ND.5	ND.5	ND.5	ND10		ND35	ND17
Carbon Tetrachloride (ug/l)	73	ND50	78	110	58	87	50	73	87	ND10		ND50	ND25
Chloroform (ug/l)	46	ND50	36	97	33	45	20	22	ND.5	ND10		ND50	ND25
Ethylbenzene (ug/l)	ND1	95000	1100	ND1	310	4	ND.5	ND.5	290	8500		1700	1000
Trichloroethylene (ug/l)	320	ND50	160	170	200	160	98	70	150	14		150	150
Toluene (ug/l)	2	15000	11	ND1	ND1	ND1	ND.5	ND.5	ND.5	8500		550	ND25
Xylene (ug/l)	ND1	20000	2000	ND1	10		ND.5	ND.5	ND.5	23000		850	200
Methylene Chloride (ug/l)	ND1	ND50	ND1	ND1	2	ND1	ND2	ND2	9.6	ND10		ND50	100

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 4
WATER-QUALITY DATA
MONITORING WELL #4
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)	6.3		7.1		7.1	6.6	7.4	6.7	6.3	6.3	6.6		6.55	
TOC (mg/l)	36		26		110	79	98	26.5	133	90	46		57	
TOX (mg/l)	ND .05		.26		.19	2.3	1.40	.68	2.10	1.3	.36		0.73	
Sp. Cond. (umhos/cm)	6400		3600		3500	4250	4950	4000	11000	7300	4625		5900	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)	500	550	61		120	180	170	98	440	190	140	238	218	180
Chromium (HEX) (mg/l)	500	500			120	180	170	100	430	232	140		84	170
Cadmium (mg/l)	0.78	0.92	0.035		0.04	0.09	0.07	0.05	ND .01	.33	.06		0.13	0.12
Copper (mg/l)	ND .08		ND .02		ND .02	ND .04	ND .03	ND .02	ND .02	ND .02	ND .03		0.04	ND.02
Zinc (mg/l)	0.06		ND .03		ND .04	ND .08	ND .007	ND .03	ND .03	ND .03	ND .03		0.15	ND.02
Chloride (mg/l)	2300		1100		770	1300	1400	960	3500	1800	790		1600	1400
Nitrate as N (mg/l)	18	12	ND 13		0.5	1.3	1.1	ND .1	ND .7	1.3	.2		0.75	3.9
Nitrate as NO_3 (mg/l)	81	55	ND 55		2.4	5.6	5.0	ND .4	ND 3	5.8	1.1		3.3	
Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)		100	100	42	57	61	120	27	110	120	70		130	100
1,1-Dichloroethylene (ug/l)		100	42	34	41	61	67	20	94	110	56		60	50
1,2-Dichloroethane (ug/l)		ND 50	17	34	61	12	140	74	74	100	35		90	70
Benzene (ug/l)		ND 50	16	9	ND 1	ND 10	5	ND 5	ND 5	ND .5	ND 14		20	ND.7
Carbon Tetrachloride (ug/l)		ND 50	ND 1	ND 1	ND 1	ND 10	ND 1	ND 5	ND 5	1.5	ND 20		ND 10	ND10
Chloroform (ug/l)		ND 50	7	3	8	10	12	6.2	30	23	ND 20		23	ND10
Ethylbenzene (ug/l)		3000	36	50	1100	670	220	160	1500	380	70		40	ND10
Trichloroethylene (ug/l)		550	140	170	200	280	290	180	280	190	110		250	250
Toluene (ug/l)		8300	130	25	330	260	220	240	3700	580	180		90	ND10
Xylene (ug/l)		10000	100	30	300	300	300	731	2700	570	200		120	40
Methylene Chloride (ug/l)		100	12	ND 1	17	ND 10	ND 1	27	140	110	ND 20		110	70

Note: ND 1 = Chemical was not detected at 1 mg/l.

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 5
WATER-QUALITY DATA
MONITORING WELL #4A
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)		6.8	7.5		7.6	7.5	7.7		7.7	7.2	7.3		7.45	
TOC (mg/l)		40	8.3		ND3	ND3	ND3		ND3	ND3	ND1		ND1	
TOX (mg/l)		ND.05	ND.08		ND.08	ND.08	ND.08		.14	ND.03	ND.01		0.15	
Sp. Cond. (umhos/cm)		1500	1500		850	1400	1525		1600	1700	1662		1550	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)		ND.03	ND.03		ND.03	ND.03	ND.03		ND.04	ND.04	.03	.02	ND.02	0.06
Chromium (HEX) (mg/l)		ND.5			ND.02	ND.02	ND.02		ND.02	ND.02	ND.1		ND.05	ND.05
Cadmium (mg/l)		ND.01	ND.01		ND.01	ND.01	ND.01		ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)			ND.02		ND.02	ND.04	ND.03		ND.02	ND.02	ND.02		0.02	ND.02
Zinc (mg/l)			ND.03		ND.04	ND.08	ND.007		ND.03	ND.03	ND.02		ND.02	0.02
Chloride (mg/l)			100		110	120	130		160	129	97		100	160
Nitrate as N (mg/l)		4.5	7.5		6.1	4.7	6.3		5.4	6.1	3.8		6.1	6.3
Nitrate as NO_3 (mg/l)		20	33		27	21	28		24	27	17		27	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)			13		11	3	19		140	1.2	ND1		ND10	
1,1-Dichloroethylene (ug/l)			1		2	ND1	2		50	ND.5	ND1		ND10	
1,2-Dichloroethane(ug/l)			ND1		ND1	ND1	2		1.5	ND.5	ND1		ND10	
Benzene (ug/l)			8		ND1	ND1	ND1		ND.5	ND.5	ND.7		ND7	
Carbon Tetrachloride (ug/l)			ND1		ND1	ND1	ND1		ND.5	ND.5	ND1		ND10	
Chloroform (ug/l)			ND1		ND1	ND1	2		17	ND.5	ND1		ND10	
Ethylbenzene (ug/l)			ND1		ND1	ND1	ND1		ND.5	ND.5	ND1		ND10	
Trichloroethylene (ug/l)			8		7	3	12		82	3.2	ND1		ND20	
Toluene (ug/l)			ND1		ND1	ND1	ND1		1.5	ND.5	ND1		ND10	
Xylene (ug/l)			ND1		ND1	ND1			ND.5	ND.5	ND1		ND10	
Methylene Chloride (ug/l)			ND1		ND1	ND1	ND1		11	ND.5	ND1		100	

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 6
WATER-QUALITY DATA
MONITORING WELL #5
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)	7.3		7.4		7.3	7.3	7.82	6.9	7.0	7.6	7.06		7.10	
TOC (mg/l)	ND3		4.8		5	3	ND3	ND3	ND3	5	7		21	
TOX (mg/l)	.19		.16		.65	.18	.30	.45	.36	ND.03	.3		0.13	
Sp. Cond. (umhos/cm)	1700		1200		1400	1100	1220	1400	1400	1300	1537		1400	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)	ND.0005		ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	.1	ND.02	0.05	0.05
Chromium (HEX) (mg/l)	ND.05		ND.02		ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.1	ND.05
Cadmium (mg/l)	ND.0002		ND.009		ND.01	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)	ND.08		ND.02		ND.02	ND.04	ND.04	ND.02	ND.02	ND.02	ND.02		ND.02	ND.02
Zinc (mg/l)	ND.019		0.18		ND.04	ND.08	ND.001	ND.031	ND.03	ND.03	.4		ND.02	ND.02
Chloride (mg/l)	2.0		66		79	290	143.5	110	110	100	90		91	93
Nitrate as N (mg/l)	0.42		8.8		12	8.6	11.13	10	15	3.4	5		14	3.6
Nitrate as NO_3 (mg/l)	1.9		39		55	38	49.3	45	65	24	22		3.1	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)		ND1	ND 1		2	2	7	4	5.4	.29	ND1		ND1	
1,1-Dichloroethylene (ug/l)		ND1	ND1		3	3	4	2.7	5.2	.25	ND1		ND1	
1,2-Dichloroethane (ug/l)		ND1	ND1		ND1	ND1	ND1	ND.5	ND.5	ND.3	ND1		7	
Benzene (ug/l)		5	ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND.7		ND.7	
Carbon Tetrachloride (ug/l)		3	11		45.5	37	68	100	120	99	20		26	
Chloroform (ug/l)		2	10		14.5	16	43	48	50	95	10		18	
Ethylbenzene (ug/l)		ND1	ND1		ND1	6	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Trichloroethylene (ug/l)		10	24		64	36	70	70	59	26	5		18	
Toluene (ug/l)		1	ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Xylene (ug/l)		ND1	ND1		ND1	ND1		ND.5	7.3	ND.5	ND1		ND1	
Methylene Chloride (ug/l)		ND1	ND1		ND1	ND1	ND1	ND2	ND.5	4.3	ND1		ND1	

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 7
WATER-QUALITY DATA
MONITORING WELL #6B
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)	7.6		7.4		7.5	7.8	7.6	7.1	7.4	7.1	7.13		7.10	
TOC (mg/l)	ND3		6.5		ND3	ND3	ND3	ND3	ND3	9	ND1		ND1	
TOX (mg/l)	0.1		ND.08		ND.08	ND.08	ND.08	ND.08	ND.08	ND.03	.02		ND.01	
Sp. Cond. (umhos/cm)	1400		1300		1400	1200	1425	1400	1600	1400	1265		1300	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)	0.0038		ND.03		ND .03	ND.02	ND.03	ND.04	ND.04	ND.04	.02	ND.02	ND.02	0.05
Chromium (HEX) (mg/l)	ND.05		ND.02		ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.05	ND.05
Cadmium (mg/l)	ND.0002		ND.009		ND.01	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)	ND.08		ND.02		ND.02	ND.04	ND.03	ND.02	ND.02	ND.02	ND.02		ND.02	ND.02
Zinc (mg/l)	ND.03		ND.03		ND.04	ND.08	ND.007	ND.03	ND.03	ND.03	ND.02		.02	ND.02
Chloride (mg/l)	79		220		82	100	140	92	130	94	61		89	100
Nitrate as N (mg/l)	6.9		8.8		7.0	5.2	6.1	7	8.4	8.4	8.4		7.3	8.0
Nitrate as NO_3 (mg/l)	28		39		31	23	27	31	37	37	37		32	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
1,1-Dichloroethylene (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
1,2-Dichloroethane (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Benzene (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND.7		ND.7	
Carbon Tetrachloride (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Chloroform (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	
Ethylbenzene (ug/l)			ND1		ND1	ND1	ND1	ND.5	1.5	ND.5	ND1		ND1	
Trichloroethylene (ug/l)			30		19	23.5	24	21	20	33	22		21	
Toluene (ug/l)			ND1		ND1	ND1	ND1	ND.5	0.8	ND.5	ND1		ND1	
Xylene (ug/l)			ND1		ND1	ND1		ND.5	7.9	ND.5	ND1		ND1	
Methylene Chloride (ug/l)			ND1		ND1	ND1	ND1	ND.5	2.6	1.2	ND1		ND1	

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 8
WATER-QUALITY DATA
MONITORING WELL #7
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)		6.3	7.3		7.4	7.2	7.3	6.5	6.8	7.3	8.94		6.95	
TOC (mg/l)		260	6.5		5	17	ND3	43	7	5	2		4.9	
TOX (mg/l)		0.081	ND.08		ND.08	ND.08	ND.08	ND.08	.11	ND.03	.08		0.18	
Sp. Cond. (umhos/cm)		2700	1700		1900	5600	5850	3700	3300	5000	8500		2800	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)		ND.03	ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	.02	ND.02	0.07	0.04
Chromium (HEX) (mg/l)		ND.5	ND.02		ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.1	ND.05
Cadmium (mg/l)		ND.01	ND.009		ND.01	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)			ND.02		ND.02	ND.04	ND.03	ND.02	0.08	ND.02	ND.02		ND.02	ND.02
Zinc (mg/l)			ND.03		ND.04	ND.04	0.022	ND.03	0.04	ND.03	ND.02		ND.02	ND.02
Chloride (mg/l)		380	190		280	1800	1700	630	610	1200	1900		570	1400
Nitrate as N (mg/l)		27	5.0		4.3	2.7	4.4	19	25	1.1	ND0.2		ND.2	5.5
Nitrate as NO_3 (mg/l)		120	22		19	12	19.5	82	110	19	ND1		ND1	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)		2			8	42	30	7.1	14	6	ND1		ND1	
1,1-Dichloroethylene (ug/l)		ND1			2	5	6	ND5	6	.55	ND1		ND1	
1,2-Dichloroethane (ug/l)		ND1			ND1	2	ND1	ND5	ND.5	ND.5	ND1		ND1	
Benzene (ug/l)		64			ND1	ND1	ND1	ND5	ND.5	ND.5	ND.7		ND.7	
Carbon Tetrachloride (ug/l)		ND1			ND1	ND1	ND1	ND5	ND.5	ND.5	ND1		ND1	
Chloroform (ug/l)		ND1			ND1	ND1	ND1	8.2	ND.5	ND.5	ND1		ND1	
Ethylbenzene (ug/l)		ND1			4	ND1	ND1	1.0	ND.5	ND.5	ND1		ND1	
Trichloroethylene (ug/l)		29			67	71	70	180	130	35	24		100	
Toluene (ug/l)		2			5	ND1	ND1	2.2	3.6	ND.5	ND1		ND1	
Xylene (ug/l)		ND1			4	ND1		ND5	ND.5	ND.5	ND1		ND1	
Methylene Chloride (ug/l)		ND1			ND1	ND1	ND1	ND5	ND.5	1.1	ND1		ND1	

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 9
WATER-QUALITY DATA
MONITORING WELL #8
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)		6.6	7.5		7.4	7.4	7.4	6.9	7.1	7.1	7.23		7.25	
TOC (mg/l)		99	7		8	ND3	ND3	ND3	5	ND3	ND1		1.5	
TOX (mg/l)		0.44	.09		ND.08	.10	.15	ND.08	.19	ND.08	.04		.06	
Sp. Cond. (umhos/cm)		2800	1500		1700	1600	1800	2000	2100	1300	1550		1,600	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)		ND.05	ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	.03	ND.02	ND.02	0.05
Chromium (HEX) (mg/l)		ND.05	ND.02		ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.05	ND.05
Cadmium (mg/l)		ND.01	ND.009		ND.01	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)			ND.02		ND.02	ND.04	ND.03	ND.02	ND.02	ND.02	ND.02		ND.02	ND.02
Zinc (mg/l)			ND.03		ND.04	ND.08	ND.001	ND.03	ND.03	ND.03	ND.02		0.05	0.04
Chloride (mg/l)			530		170	270	250	300	300	120	140		190	130
Nitrate as N (mg/l)		1.3	4.2		3.2	2.7	3.2	2.5	2.2	4.3	4.5		3.7	5.7
Nitrate as NO_3 (mg/l)		5.8	39		14	12	14.1	11	10	19	20		16	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)			41		76	160	160	55	160	45	50		42	2
1,1-Dichloroethylene (ug/l)			3		8	17	19	5.6	29	5.5	2.8		6	ND1
1,2-Dichloroethane (ug/l)			1		14	14	8	9.5	16	ND.5	ND1		3	30
Benzene (ug/l)			ND1		ND1	ND1	ND1	ND.5	ND.5	ND.5	ND.7		ND.7	ND.7
Carbon Tetrachloride (ug/l)			ND1		ND1	ND1	8	ND.5	ND.5	ND.5	ND1		ND1	ND1
Chloroform (ug/l)			ND1		2	2	2	5.6	ND.5	0.55	ND1		ND1	ND1
Ethylbenzene (ug/l)			ND1		2	ND1	ND1	ND.5	ND.5	ND.5	ND1		ND1	ND1
Trichloroethylene (ug/l)			19		28	52	44	67	51	25	17		27	20
Toluene (ug/l)			ND1		3	ND1	ND1	2.3	ND.5	ND.5	ND1		ND1	ND1
Xylene (ug/l)			ND1		1	ND1		ND.5	ND.5	ND.5	ND1		ND1	ND1
Methylene Chloride (ug/l)			5		ND1	ND1	ND1	ND.5	2.4	3.0	ND1		ND1	ND1	ND1

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 10
WATER-QUALITY DATA
MONITORING WELL #9
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)		6.4	7.4		7.3	7.0	7.4	6.9	6.8	6.9	7.15		7.0	
TOC (mg/l)		210	14		28	2.8	24	ND3	42	15	3		4.0	
TOX (mg/l)		0.13	.26		.12	.28	.37	.37	.48	.28	.16		0.22	
Sp. Cond. (umhos/cm)		2200	2800		2000	2400	2675	2500	3200	3100	2075		1950	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)		ND.03	ND.03		ND.03	ND.03	ND.03	ND.04	0.12	.94	1.30	2.42	1.66	2.75
Chromium (HEX) (mg/l)		ND.05	ND.02		ND.02	0.05	ND.02	ND.02	0.05	.59	1.30		0.8	1.5
Cadmium (mg/l)		ND.01	ND.00		ND.01	ND1	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)			ND.02		ND.02	ND.04	ND.03	ND.02	ND.02	ND.02	ND.02		ND.02	ND.02
Zinc (mg/l)			ND.03		ND.04	ND.08	0.018	ND.03	ND.03	ND.03	ND.02		0.05	0.03
Chloride (mg/l)		300	530		250	720	670	470	640	630	290		290	490
Nitrate as N (mg/l)		1.4	8.8		3.2	1.4	3.72	4.1	2.9	8.4	7.2		5.0	7.6
Nitrate as NO_3 (mg/l)		6.3	39		14	6.2	16.5	18	13	37	32		22	

Note: ND 1 = Chemical was not detected at 1 mg/l.

COMPOUND	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)			99		50	360	250	110	140	130	40		ND10	90
1,1-Dichloroethylene (ug/l)			18		18	200	110	44	72	84	50		29	30
1,2-Dichloroethane (ug/l)			10		13	90	52	90	69	ND.5	6		90	ND10
Benzene (ug/l)			ND1		ND1	ND5	ND1	ND.5	ND2.5	ND.5	ND.7		ND7	ND7
Carbon Tetrachloride (ug/l)			ND1		ND1	ND5	ND1	ND.5	ND2.5	ND.5	ND1		ND10	ND10
Chloroform (ug/l)			20		4	30	22	10	19	28	13		ND10	10
Ethylbenzene (ug/l)			ND1		ND1	ND5	ND1	ND.5	ND2.5	ND.5	ND1		ND10	ND10
Trichloroethylene (ug/l)			61		3	550	240	150	160	150	17		120	90
Toluene (ug/l)			ND1		ND1	ND5	ND1	0.7	ND2.5	ND.5	ND1		ND10	ND10
Xylene (ug/l)			ND1		ND1	ND5		ND.5	ND2.5	ND.5	ND1		ND10	ND10
Methylene Chloride (ug/l)			110		ND1	ND5	18	29	33	83	35		ND10	10

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 11
WATER-QUALITY DATA
MONITORING WELL #10
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)		6.8	7.8		7.6	7.4	7.8	7.4	7.2	7.1	7.51		7.20	
TOC (mg/l)		440	10		130	103	135	33.8	158	56	7		29	
TOX (mg/l)		0.17	ND.08		ND.08	.14	.15	.20	.62	.18	.06		0.22	
Sp. Cond. (umhos/cm)		2100	1300		1600	1400	1550	1600	2100	1900	1355		1800	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)		ND.03	ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	.08	.05	0.05	0.06
Chromium (HEX) (mg/l)		ND.5			ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.05	ND.05
Cadmium (mg/l)		ND.01			ND.01	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)			ND.02		ND.02	ND.04	ND.03	ND.02	ND.02	ND.02	ND.02		0.05	ND.02
Zinc (mg/l)			ND.03		ND.04	ND.08	ND.007	ND.03	ND.03	ND.03	ND.02		0.35	ND.02
Chloride (mg/l)			150		120	150	160	160	260	230	100		210	230
Nitrate as N (mg/l)		ND.1	ND.1		0.1	ND.01	ND.1	ND.1	ND.1	ND.1	ND.2		ND.2	ND.2
Nitrate as NO_3 (mg/l)		ND4.4	ND4.4		0.6	ND.04	ND.4	ND.4	ND.4	ND.4	ND1		ND1	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1-Dichloroethane (ug/l)		ND50	2		6	ND10	20	ND5	23	21	3.7		32	ND5
1,1-Dichloroethylene (ug/l)		ND50	1		7	14	ND20	ND5	41	28	ND1		21	ND5
1,2-Dichloroethane (ug/l)		ND50	17		86	200	270	63	160	93	15		70	40
Benzene (ug/l)		ND50	ND1		ND1	ND10	ND20	ND5	ND2.5	ND.5	ND.7		ND7	ND3
Carbon Tetrachloride (ug/l)		ND50	ND1		ND1	ND10	ND20	ND5	ND2.5	ND.5	ND1		ND10	ND5
Chloroform (ug/l)		50	ND1		ND1	ND10	ND20	ND5	3.1	2.3	ND1		ND10	ND5
Ethylbenzene (ug/l)		6500	68		ND1	2200	1800	330	2000	360	ND1		ND10	ND5
Trichloroethylene (ug/l)		250	29		56	93	120	62	160	130	14		90	60
Toluene (ug/l)		17000	ND1		ND1	36	560	ND5	14	ND.5	ND1		ND10	ND5
Xylene (ug/l)		20000	ND1		70	90	600	120	500	ND.5	ND1		ND10	ND5
Methylene Chloride (ug/l)		100	ND1		ND1	ND10	ND20	ND5	13	1.8	ND1		ND10	14

Note: ND 1 = Compound was not detected at 1 ug/l.

TABLE 12
WATER-QUALITY DATA
MONITORING WELL #11
SOUTHERN CALIFORNIA CHEMICAL
PROJECT 50-1014-03

COMPOUND	DATE SAMPLED													
	2/85-3/85	7/85-8/85	3/86	5/86	7/86	9/86	12/86	3/87	6/87-7/87	10/87	2/88	5/88	6/88	9/88
EPA Indicator Measurement (CFR 40 265.92)														
pH (units)		6.6	7.8		7.2	7.3	7.5	7.5	7.4	7.4	7.34		7.45	
TOC (mg/l)		54	13		120	156	125	26.8	58	61	12		20	
TOX (mg/l)		ND.05	0.1		ND.08	ND.08	.12	.14	.15	ND.08	.07		0.078	
Sp. Cond. (umhos/cm)		1600	1600		1700	1600	1800	1700	2100	1600	1895		1500	
Site-Specific Indicator Chemicals														
Chromium (total) (mg/l)		ND.03	ND.03		ND.03	ND.03	ND.03	ND.04	ND.04	ND.04	.04	ND.02	ND.02	0.05
Chromium (HEX) (mg/l)		ND.5			ND.02	ND.02	ND.02	ND.02	ND.02	ND.02	ND.1		ND.05	ND.05
Cadmium (mg/l)		ND.01	ND.01		ND.01	ND.01	ND.01	ND.01	ND.01	ND.02	ND.02		ND.01	ND.01
Copper (mg/l)			ND.02		ND.02	ND.04	ND.03	ND.02	ND.02	ND.02	ND.02		ND.01	ND.02
Zinc (mg/l)			ND.03		ND.04	ND.08	ND.001	ND.03	ND.03	ND.03	ND.02		ND.02	0.02
Chloride (mg/l)		220	230		180	230	240	170	270	110	86		120	110
Nitrate as N (mg/l)		1.2	2.5		1.1	ND1	0.1	1.2	0.7	1.5	2.2		1.5	1.7
Nitrate as NO_3 (mg/l)		5.2	11		4.8	ND.4	0.5	5.5	3.3	6.8	9.6		65	

Note: ND 1 = Chemical was not detected at 1 mg/l.

Organic Compounds (EPA Method 624)														
1,1 Dichloroethane (ug/l)			10	4	10	ND200	ND100	6.9	12	2.3	2.5		ND10	ND5
1,1 Dichloroethylene (ug/l)			8	2	5	ND200	ND100	5.0	11	2.6	2.3		ND10	ND5
1,2 Dichloroethane (ug/l)			8	31	17	ND200	130	95	21	89	21		ND10	60
Benzene (ug/l)			ND1	3	ND1	ND200	ND100	1.5	ND.5	ND.5	ND.7		ND7	ND3
Carbon Tetrachloride (ug/l)			ND1	ND1	ND1	ND200	ND100	ND.5	ND.5	ND.5	ND1		ND10	ND5
Chloroform (ug/l)			3	3	10	ND200	ND100	3.3	3.5	1.0	ND1		ND10	ND5
Ethylbenzene (ug/l)			13	1800	2200	6400	3300	ND.5	1200	180	17		ND10	130
Trichloroethylene (ug/l)			110	36	76	ND200	180	46	81	36	20		70	30
Toluene (ug/l)			ND1	5400	5200	14000	7500	3.6	360	ND.5	ND1		ND10	ND5
Xylene (ug/l)			20	4000	1500	10000	3000	220	370	ND.5	ND1		110	ND5
Methylene Chloride (ug/l)			ND1	ND1	ND1	ND200	ND100	1.8	8.4	ND.5	3		ND10	16

Note: ND 1 = Compound was not detected at 1 ug/l.

APPENDIX C

PRIMARY LABORATORY DATA
J. M. MONTGOMERY LABORATORIES

PURGEABLE HALOCARBONS

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87102
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Analyzed: 1/26/89
Date Received: 1/24/89

Lab Number: J19781
Sample I.D.: SCC-MW01-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.10
Methyl Bromide	ND	0.20
Chloroethane	ND	0.10
Trichlorofluoromethane	ND	0.50
1,1-Dichloroethene	ND	0.10
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	0.10
1,1-Dichloroethane	ND	0.10
Chloroform	0.2	0.10
1,1,1-Trichloroethane	ND	0.10
Carbon Tetrachloride	ND	0.10
1,2-Dichloroethane	0.7	0.10
Trichloroethene	19	0.10
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.10
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

Approved by Joan Oppenheimer

CAMP DRESSER & McKEE INC.
MAR 17 1989
IRVINE

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J19781
Sample I.D.: SCC-MW01-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.10
1,1,2-Trichloroethane	ND	0.10
Tetrachloroethene	2.8	0.10
Dibromochloromethane	ND	0.10
Chlorobenzene	ND	0.10
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.10
1,4-Dichlorobenzene	ND	0.10
1,2-Dichlorobenzene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

CAMP DRESSER & McKEE INC.
MAR 17 1989
IRVINE

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87230
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 2/3/89
Date Received: 1/25/89

Lab Number: J10079
Sample I.D.: SCC-MW02-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	60	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

APPROVED

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10079
Sample I.D.: SCC-MW02-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	1.8	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87552
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/4/89
Date Received: 1/30/89

Lab Number: J10486
Sample I.D.: SCC-MW03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	3.2	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	4.4	0.20
Chloroform	13	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	15	0.20
1,2-Dichloroethane	240	0.20
Trichloroethene	74	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lewis

FEB 1989

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10486
Sample I.D.: SCC-MW03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	4.6	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20876 R87553 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/4/89
Date Received: 1/30/89

Lab Number: J10487
Sample I.D.: SCC-MW04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	22	0.20
Methylene Chloride	14	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	36	0.20
Chloroform	3.7	0.20
1,1,1-Trichloroethane	0.68	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	20	0.20
Trichloroethene	120	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carl F. Leon

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10487
Sample I.D.: SCC-MW04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	1.6	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20924
Report#: R87750
Phone #: 714-752-5452

Date Sampled: 2/1/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20727
Sample I.D.: SCC-MW04A-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	6.7	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lopez

APPROVED
FEB [illegible] 1989
[illegible] OFFICER

CAMP DRESSER [illegible]
FEB 2 4 1989
[illegible]

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J20727
Sample I.D.: SCC-MW04A-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87231
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 2/3/89
Date Received: 1/25/89

Lab Number: J10080
Sample I.D.: SCC-MW05-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	2.1	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	7.4	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	5.6	0.20
1,2-Dichloroethane	29	0.20
Trichloroethene	5.9	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

APPROVED
FEB [illegible] 1989
QC OFFICER

CAMP DRESSER & McKEE
FEB [illegible] 1989
IRVINE

CAMP DRESSER & McKEE
FEB [illegible] 1989
IRVINE

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10080
Sample I.D.: SCC-MW05-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20821 R87338 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/3/89
Date Received: 1/26/89

Lab Number: J10194
Sample I.D.: SCC-MW06B-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	57	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Fong

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10194
Sample I.D.: SCC-MW06B-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	7.0	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87339
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/3/89
Date Received: 1/26/89

Lab Number: J10195
Sample I.D.: SCC-MW07-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	2.2	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	2.9	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	35	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10243
Sample I.D.: SCC-MW08-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	4.3	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee		Job#:	437.0698
2302 Martin St.		PO#:	
Suite 275		Workorder#:	W20844
Irvine, CA 92715		Report#:	R87399
Attn: Thom Deane		Phone #:	714-752-5452

Date Sampled: 1/27/89 Date Received: 1/30/89
Date Analyzed: 2/4/89

Lab Number: J10244
Sample I.D.: SCC-MW09-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	16	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	34	0.20
Chloroform	8.9	0.20
1,1,1-Trichloroethane	2.9	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	4.3	0.20
Trichloroethene	55	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10244
Sample I.D.: SCC-MW09-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	3.1	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87665
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20647
Sample I.D.: SCC-MW10-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	2.8	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	3.7	0.20
Trichloroethene	32	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J20647
Sample I.D.: SCC-MW10-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	1.2	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee		Job#:	437.0698
2302 Martin St.		PO#:	
Suite 275		Workorder#:	W20905
Irvine, CA 92715		Report#:	R87666
Attn: Thom Deane		Phone #:	714-752-5452

Date Sampled: 1/31/89 Date Received: 2/1/89
Date Analyzed: 2/5/89

Lab Number: J20648
Sample I.D.: SCC-MW11-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	1.0	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	3.2	0.20
Chloroform	0.88	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	21	0.20
Trichloroethene	34	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J20648
Sample I.D.: SCC-MW11-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87346
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/3/89
Date Received: 1/26/89

Lab Number: J10205
Sample I.D.: SCC-SPK1-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lowry

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10205
Sample I.D.: SCC-SPK1-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87237
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 2/3/89
Date Received: 1/25/89

Lab Number: J10089
Sample I.D.: SCC-SC01-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lewis

APPROVED

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J19783
Sample I.D.: SCC-EB1-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.10
1,1,2-Trichloroethane	ND	0.10
Tetrachloroethene	ND	0.10
Dibromochloromethane	ND	0.10
Chlorobenzene	ND	0.10
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.10
1,4-Dichlorobenzene	ND	0.10
1,2-Dichlorobenzene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

CAMP DRESSER & McKEE INC.
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IRVINE

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Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87345
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/3/89
Date Received: 1/26/89

Lab Number: J10204
Sample I.D.: SCC-EB02-0.0-002

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	2.0	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lovely

APPROVED
FEB [illegible] 1989
QC OFFICER

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10204
Sample I.D.: SCC-EB02-0.0-002

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20844 R87405 714-752-5452

Date Sampled: 1/27/89 Date Received: 1/30/89
Date Analyzed: 2/4/89

Lab Number: J10253
Sample I.D.: SCC-EB03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	2.7	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	1.3	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by _____

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10253
Sample I.D.: SCC-EB03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87672
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20657
Sample I.D.: SCC-EB04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	2.1	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J20657
Sample I.D.: SCC-EB04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87103
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Analyzed: 1/26/89
Date Received: 1/24/89

Lab Number: J19782
Sample I.D.: SCC-TB01-0.0-001 TB 1/20/89

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.10
Methyl Bromide	ND	0.20
Chloroethane	ND	0.10
Trichlorofluoromethane	ND	0.50
1,1-Dichloroethene	ND	0.10
Methylene Chloride	2.8	1.0
trans-1,2-Dichloroethene	ND	0.10
1,1-Dichloroethane	ND	0.10
Chloroform	ND	0.10
1,1,1-Trichloroethane	ND	0.10
Carbon Tetrachloride	ND	0.10
1,2-Dichloroethane	ND	0.10
Trichloroethene	ND	0.10
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.10
2-Chloroethylvinylether	ND	10
cis-1,3-Dichloropropene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

Approved by Joan Oppenheimer

CAMP DRESSER & McKEE INC.
MAR 17 1989
IRVINE

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J19782
Sample I.D.: SCC-TB01-0.0-001 TB 1/20/89

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.10
1,1,2-Trichloroethane	ND	0.10
Tetrachloroethene	ND	0.10
Dibromochloromethane	ND	0.10
Chlorobenzene	ND	0.10
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.10
1,4-Dichlorobenzene	ND	0.10
1,2-Dichlorobenzene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

CAMP DRESSER & McKEE INC.
MAR 17 1989
IRVINE

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Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87238
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 1/3/89
Date Received: 1/25/89

Lab Number: J10090
Sample I.D.: SCC-TB02-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	5.9	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

Above data confirmed by dissimilar columnd.

ND: Not Detected
NA: Not Analyzed

Approved by

APPROVED
FEB 27 1989
QC OFFICER

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10090
Sample I.D.: SCC-TB02-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Results submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87347
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/3/89
Date Received: 1/26/89

Lab Number: J10206
Sample I.D.: SCC-TB03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	2.3	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by [signature]

APPROVED

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10206
Sample I.D.: SCC-TB03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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a division of James M. Montgomery, Consulting Engineers, Inc.
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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20844 R87406 714-752-5452

Date Sampled: 1/27/89 Date Received: 1/30/89
Date Analyzed: 2/4/89

Lab Number: J10254
Sample I.D.: SCC-TB04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	5.0	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10254
Sample I.D.: SCC-TB04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

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Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87562
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/4/89
Date Received: 1/30/89

Lab Number: J10504
Sample I.D.: SCC-TB05-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	4.3	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leopold

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J10504
Sample I.D.: SCC-TB05-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
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Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20905 R87673 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20658
Sample I.D.: SCC-TB06-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carolyn Leong

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J20658
Sample I.D.: SCC-TB06-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
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Report of GC Analysis for PURGEABLE HALOCARBONS using HECD

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20924
Report#: R87755
Phone #: 714-752-5452

Date Sampled: 2/1/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20732
Sample I.D.: SCC-TB07-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS:		
Dichlorodifluoromethane	ND	0.20
Methyl Chloride	ND	0.20
Vinyl Chloride	ND	0.20
Methyl Bromide	ND	0.20
Chloroethane	ND	0.20
Trichlorofluoromethane	ND	0.20
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.20
trans-1,2-Dichloroethene	ND	0.20
1,1-Dichloroethane	ND	0.20
Chloroform	0.27	0.20
1,1,1-Trichloroethane	ND	0.20
Carbon Tetrachloride	ND	0.20
1,2-Dichloroethane	ND	0.20
Trichloroethene	ND	0.20
1,2-Dichloropropane	ND	0.20
Dichlorobromomethane	ND	0.20
2-Chloroethylvinylether	ND	0.20
cis-1,3-Dichloropropene	ND	0.20

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lioney

APPROVED
FEB 1989
QC OFFICER

CAMP DRESSER & McKEE INC.
FEB 24 1989
IRVINE

Report of GC Analysis
for PURGEABLE HALOCARBONS using HECD

Lab Number: J20732
Sample I.D.: SCC-TB07-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE HALOCARBONS (continued):		
trans-1,3-Dichloropropene	ND	0.20
1,1,2-Trichloroethane	ND	0.20
Tetrachloroethene	ND	0.20
Dibromochloromethane	ND	0.20
Chlorobenzene	ND	0.20
Bromoform	ND	0.20
1,1,2,2-Tetrachloroethane	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

PURGEABLE AROMATICS

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
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(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC Analysis
for PURGEABLE AROMATICS using PID

Camp, Dresser & McKee		Job#:	437.0698
2302 Martin St.		PO#:	
Suite 275		Workorder#:	W20775
Irvine, CA 92715		Report#:	R87105
Attn: Thom Deane		Phone #:	714-752-5452

Date Sampled: 1/24/89 Date Received: 1/24/89
Date Analyzed: 1/26/89

Lab Number: J19781
Sample I.D.: SCC-MW01-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.10
1,4-Dichlorobenzene	ND	0.10
1,2-Dichlorobenzene	ND	0.10
m,p-Xylenes	ND	0.10
o-Xylene	ND	0.10
Benzene	ND	0.10
Toluene	ND	0.10
Ethylbenzene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

Approved by Jean Ottenheimer

CAMP DRESSER & McKEE INC
MAR 17 1989
IRVINE

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87232
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 2/3/89
Date Received: 1/25/89

Lab Number: J10079
Sample I.D.: SCC-MW02-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

APPROVED
[illegible]
QC OFFICER

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
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Report of GC Analysis
for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87554
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/4/89
Date Received: 1/30/89

Lab Number: J10486
Sample I.D.: SCC-MW03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	7.4	0.50
Toluene	17	0.50
Ethylbenzene	4,900	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Cox

APPROVED
FEB [illegible] 1989
QC OFFICER

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
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Report of GC Analysis
for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87555
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/4/89
Date Received: 1/30/89

Lab Number: J10487
Sample I.D.: SCC-MW04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	10	0.50
Ethylbenzene	15	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Feeney

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Report of GC Analysis
for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee		Job#:	437.0698
2302 Martin St.		PO#:	
Suite 275		Workorder#:	W20924
Irvine, CA 92715		Report#:	R87751
Attn: Thom Deane		Phone #:	714-752-5452

Date Sampled: 2/1/89 Date Received: 2/1/89
Date Analyzed: 2/5/89

Lab Number: J20727
Sample I.D.: SCC-MW04A-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Long

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane	Job#: 437.0698 PO#: Workorder#: W20798 Report#: R87233 Phone #: 714-752-5452

Date Sampled: 1/25/89 Date Received: 1/25/89
Date Analyzed: 2/3/89

Lab Number: J10080
Sample I.D.: SCC-MW05-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	0.90	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20821 R87340 714-752-5452

Date Sampled: 1/26/89 Date Received: 1/26/89
Date Analyzed: 2/3/89

Lab Number: J10194
Sample I.D.: SCC-MW06B-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane	Job#: 437.0698 PO#: Workorder#: W20821 Report#: R87341 Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/3/89
Date Received: 1/26/89

Lab Number: J10195
Sample I.D.: SCC-MW07-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	1.4	0.50
Ethylbenzene	1.2	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Charles Leong

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20844 R87400 714-752-5452

Date Sampled: 1/27/89 Date Received: 1/30/89
Date Analyzed: 2/3/89

Lab Number: J10243
Sample I.D.: SCC-MW08-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole L. Leary

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane	Job#: 437.0698 PO#: Workorder#: W20844 Report#: R87401 Phone #: 714-752-5452

Date Sampled: 1/27/89
Date Analyzed: 2/4/89
Date Received: 1/30/89

Lab Number: J10244
Sample I.D.: SCC-MW09-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leary

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87667
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20647
Sample I.D.: SCC-MW10-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	0.54	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lionez

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee	Job#: 437.0698
2302 Martin St.	PO#:
Suite 275	Workorder#: W20905
Irvine, CA 92715	Report#: R87668
Attn: Thom Deane	Phone #: 714-752-5452

Date Sampled: 1/31/89 Date Received: 2/1/89
Date Analyzed: 2/5/89

Lab Number: J20648
Sample I.D.: SCC-MW11-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	43	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leone

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane	Job#: 437.0698 PO#: Workorder#: W20821 Report#: R87349 Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/3/89
Date Received: 1/26/89

Lab Number: J10205
Sample I.D.: SCC-SPK1-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	72	0.50
Toluene	150	0.50
Ethylbenzene	39	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87239
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 2/3/89
Date Received: 1/25/89

Lab Number: J10089
Sample I.D.: SCC-SC01-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Lion

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QC OFFICER

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Report of GC Analysis for PURGEABLE AROMATICS using PID

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87107
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Analyzed: 1/26/89
Date Received: 1/24/89

Lab Number: J19783
Sample I.D.: SCC-EB1-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.10
1,4-Dichlorobenzene	ND	0.10
1,2-Dichlorobenzene	ND	0.10
m,p-Xylenes	ND	0.10
o-Xylene	ND	0.10
Benzene	ND	0.10
Toluene	ND	0.10
Ethylbenzene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

Approved by Joan Oppenheimer

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Report of GC Analysis
for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee	Job#: 437.0698
2302 Martin St.	PO#:
Suite 275	Workorder#: W20821
Irvine, CA 92715	Report#: R87348
Attn: Thom Deane	Phone #: 714-752-5452

Date Sampled: 1/26/89 Date Received: 1/26/89
Date Analyzed: 2/3/89

Lab Number: J10204
Sample I.D.: SCC-EB02-0.0-002

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	0.86	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories In

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by

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QC OFFICER

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane	Job#: 437.0698 PO#: Workorder#: W20844 Report#: R87407 Phone #: 714-752-5452

Date Sampled: 1/27/89 Date Received: 1/30/89
Date Analyzed: 2/4/89

Lab Number: J10253
Sample I.D.: SCC-EB03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Feeney

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87674
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20657
Sample I.D.: SCC-EB04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

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Report of GC Analysis for PURGEABLE AROMATICS using PID

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87106
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Analyzed: 1/26/89
Date Received: 1/24/89

Lab Number: J19782
Sample I.D.: SCC-TB01-0.0-001 TB 1/20/89

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.10
1,4-Dichlorobenzene	ND	0.10
1,2-Dichlorobenzene	ND	0.10
m,p-Xylenes	ND	0.10
o-Xylene	ND	0.10
Benzene	ND	0.10
Toluene	ND	0.10
Ethylbenzene	ND	0.10

Tentative identification by capillary chromatography with selective detectors. Confirmation available upon request.

ND: Not Detected
NA: Not Analyzed

Approved by Joan Oppenheimer

CAMP DRESSER & McKEE INC.
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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane	Job#: 437.0698 PO#: Workorder#: W20798 Report#: R87240 Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 2/3/89
Date Received: 1/25/89

Lab Number: J10090
Sample I.D.: SCC-TB02-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

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Report of GC Analysis
for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee	Job#: 437.0698
2302 Martin St.	PO#:
Suite 275	Workorder#: W20821
Irvine, CA 92715	Report#: R87350
Attn: Thom Deane	Phone #: 714-752-5452

Date Sampled: 1/26/89 Date Received: 1/26/89
Date Analyzed: 2/3/89

Lab Number: J10206
Sample I.D.: SCC-TB03-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carle F. Leong

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane	Job#: 437.0698 PO#: Workorder#: W20844 Report#: R87408 Phone #: 714-752-5452

Date Sampled: 1/27/89
Date Analyzed: 2/4/89
Date Received: 1/30/89

Lab Number: J10254
Sample I.D.: SCC-TB04-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87563
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/5/89
Date Received: 1/30/89

Lab Number: J10504
Sample I.D.: SCC-TB05-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by [signature]

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87675
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20658
Sample I.D.: SCC-TB06-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	1.5	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Leong

APPROVED

CAMP DRESSER & McKEE INC.
FEB 24 1989
IRVINE

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Report of GC Analysis for PURGEABLE AROMATICS using PID

* Camp, Dresser & McKee 2302 Martin St. Suite 275 Irvine, CA 92715 Attn: Thom Deane		Job#: PO#: Workorder#: Report#: Phone #:	437.0698 W20924 R87756 714-752-5452

Date Sampled: 2/1/89
Date Analyzed: 2/5/89
Date Received: 2/1/89

Lab Number: J20732
Sample I.D.: SCC-TB07-0.0-001

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
PURGEABLE AROMATICS:		
1,3-Dichlorobenzene	ND	0.50
1,4-Dichlorobenzene	ND	0.50
1,2-Dichlorobenzene	ND	0.50
m,p-Xylenes	NA	0.50
o-Xylene	NA	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	2.8	0.50

Above data submitted by Vista Laboratories Inc.

Above data confirmed by dissimilar column.

ND: Not Detected
NA: Not Analyzed

Approved by Carole J. Jones

CAMP DRESSER & McKEE INC.
FEB 24 1989
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TOTAL ORGANIC CARBON
(TOC)

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Report of Quadruplicate Analysis for
TOTAL ORGANIC CARBON

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87095
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Analyzed: 1/27/88
Date Received: 1/24/89

Lab#	Sample I.D.	TOC #1 mg/l	TOC #2 mg/l	TOC #3 mg/l	TOC #4 mg/l
J19773	SCC-MW01-0.0-001	6.9	7.8	7.1	7.6

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IRVINE

TOC

Average DI water blank value = 0.272 milligrams/liter.

LCS recovery = 103%.

NA: Not analyzed
ND: Not detected
Minimum detection limit = 0.5 milligrams/liter

Approved by Carole J. Lowry

APPROVED
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QC OFFICER

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Report of Quadruplicate Analysis for TOTAL ORGANIC CARBON

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87234
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 2/1/89
Date Received: 1/25/89

Lab#	Sample I.D.	TOC #1 mg/l	TOC #2 mg/l	TOC #3 mg/l	TOC #4 mg/l
J10079	SCC-MW02-0.0-001	<0.5	<0.5	<0.5	<0.5
J10080	SCC-MW05-0.0-001	65*	64*	63*	63*

*minimum detection limit = 5.0 milligrams/liter.

Average DI water blank value = 0.272 milligrams/liter.

LCS recovery = 103%.

NA: Not analyzed
ND: Not detected
Minimum detection limit = 0.5 milligrams/liter

Approved by Carlos J. Trong

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Report of Quadruplicate Analysis for TOTAL ORGANIC CARBON

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87556
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/1/89
Date Received: 1/30/89

Lab#	Sample I.D.	TOC #1 mg/l	TOC #2 mg/l	TOC #3 mg/l	TOC #4 mg/l
J10486	SCC-MW03-0.0-001	160*	160*	160*	160*
J10487	SCC-MW04-0.0-001	16	14	14	13

*minimum detection limit = 10 milligrams/liter.

Average DI water blank value = 0.272 milligrams/liter.

LCS recovery = 103%.

NA: Not analyzed
ND: Not detected
Minimum detection limit = 2.5 milligrams/liter

Approved by Carole J. Moore

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Report of Quadruplicate Analysis for TOTAL ORGANIC CARBON

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20924
Report#: R87753
Phone #: 714-752-5452

Date Sampled: 2/1/89
Date Analyzed: 2/9/89
Date Received: 2/1/89

Lab#	Sample I.D.	TOC #1 mg/l	TOC #2 mg/l	TOC #3 mg/l	TOC #4 mg/l
J20727	SCC-MW04A-0.0-001	<0.5	<0.5	<0.5	<0.5

Average blank DI water value = 0.170 milligrams/liter.

LCS recovery = 103%.

NA: Not analyzed
ND: Not detected
Minimum detection limit = 0.5 milligrams/liter

Approved by Carole J. Keane

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Report of Quadruplicate Analysis for
TOTAL ORGANIC CARBON

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Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87342
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 2/1/89
Date Received: 1/26/89

Lab#	Sample I.D.	TOC #1 mg/l	TOC #2 mg/l	TOC #3 mg/l	TOC #4 mg/l
J10194	SCC-MW06B-0.0-001	<0.5	<0.5	<0.5	<0.5
J10195	SCC-MW07-0.0-001	3.6	3.7	3.6	3.5

Average DI water blank value = 0.272 milligrams/liter.

LCS recovery = 103%.

NA: Not analyzed
ND: Not detected
Minimum detection limit = 0.5 milligrams/liter

Approved by Carole J. Leong

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Report of Quadruplicate Analysis for TOTAL ORGANIC CARBON

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20844
Report#: R87402
Phone #: 714-752-5452

Date Sampled: 1/27/89
Date Analyzed: 2/1/89
Date Received: 1/30/89

Lab#	Sample I.D.	TOC #1 mg/l	TOC #2 mg/l	TOC #3 mg/l	TOC #4 mg/l
J10243	SCC-MW08-0.0-001	1.1	1.2	1.2	1.2
J10244	SCC-MW09-0.0-001	2.1	1.7	1.8	1.5

Average DI blank value = 0.272 milligrams/liter.

LCS recovery = 103%.

NA: Not analyzed
ND: Not detected
Minimum detection limit = 0.5 milligrams/liter

Approved by Carole J. Lore

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Report of Quadruplicate Analysis for TOTAL ORGANIC CARBON

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87669
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/9/89
Date Received: 2/1/89

Lab#	Sample I.D.	TOC #1 mg/l	TOC #2 mg/l	TOC #3 mg/l	TOC #4 mg/l
J20647	SCC-MW10-0.0-001	2.0	1.9	2.0	2.0
J20648	SCC-MW11-0.0-001	5.4	5.8	5.3	5.2

Average DI water blank value = 0.170 milligrams/liter.

LCS recovery = 103%.

NA: Not analyzed
ND: Not detected
Minimum detection limit = 0.5 milligrams/liter

Approved by Carole J. Lowe

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FEB 14 1989
QC OFFICER

TOTAL ORGANIC HALOGEN
(TOX)

MONTGOMERY LABORATORIES
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Report of Quadruplicate Analyses for TOTAL ORGANIC HALOGEN

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87096
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Analyzed: 1/25/89
Date Received: 1/24/89

Lab#	Sample Description	TOX 1	TOX 2	TOX 3	TOX 4	det limit
		(micrograms/liter)				
J19773	SCC-MW01-0.0-001	62	42	41	45	10

Laboratory Control Sample(LCS) : 98% Recovery
Carbon Blank : 0.74

NA: Not Analyzed
ND: Not Detected

Approved by Cecilia Leong

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Report of Quadruplicate Analyses for TOTAL ORGANIC HALOGEN

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87235
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Analyzed: 1/27/89
Date Received: 1/25/89

Lab#	Sample Description	TOX 1	TOX 2	TOX 3	TOX 4	DET. LIMIT
		(micrograms/liter)				
J10079	SCC-MW02-0.0-001	50	47	57	39	10
J10080	SCC-MW05-0.0-001	58	42	42	37	10

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J10079 had an average carbon blank value of 0.77 micrograms and a LCS value of 97% recovery. The matrix spike for TOX#1 was 83% recovery.
J10080 had an average carbon blank value of 0.37 micrograms and a LCS value of 95% recovery. The matrix spike for TOX#2 was 113% recovery.

NA: Not Analyzed
ND: Not Detected

Approved by Carole J. Lopez

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Report of Quadruplicate Analyses for TOTAL ORGANIC HALOGEN

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87557
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Analyzed: 2/5,6/89
Date Received: 1/30/89

Lab#	Sample Description	TOX 1	TOX 2	TOX 3	TOX 4	DET. LIMIT
			(micrograms/liter)			
J10486	SCC-MW03-0.0-001	220	230	220	220	10
J10487	SCC-MW04-0.0-001	360	260	270	300	20

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IRVINE

J10486 had an average carbon blank value of 0.27 micrograms and a LCS value of 94% recovery. The matrix spike for TOX#3 was 81% recovery.
J10487 had an average carbon blank value of 0.58 micrograms and a LCS value of100% recovery. The matrix spike for TOX#1 was 93% recovery.

NA: Not Analyzed
ND: Not Detected

Approved by Carole J. Lung

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Report of Quadruplicate Analyses for TOTAL ORGANIC HALOGEN

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20924
Report#: R87752
Phone #: 714-752-5452

Date Sampled: 2/1/89
Date Analyzed: 2/7/89
Date Received: 2/1/89

Lab#	Sample Description	TOX 1	TOX 2	TOX 3	TOX 4	DET. LIMIT
		(micrograms/liter)				
J20727	SCC-MW04A-0.0-001	49	38	19	29	10

J20727 had an average carbon blank value of 0.49 micrograms and a LCS value of 106% recovery. The matrix spike for TOX#1 was 100% recovery.

NA: Not Analyzed
ND: Not Detected

Approved by Carole J. Leong

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Report of Quadruplicate Analyses for TOTAL ORGANIC HALOGEN

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87343
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Analyzed: 1/28,30/89
Date Received: 1/26/89

Lab#	Sample Description	TOX 1	TOX 2	TOX 3	TOX 4	DET. LIMIT
		(micrograms/liter)				
J10194	SCC-MW06B-0.0-001	46	48	36	46	10
J10195	SCC-MW07-0.0-001	90	42	80	130	10

J10194 had an average carbon blank value of 0.58 micrograms and a LCS value of 81% recovery. The matrix spike for TOX#1 was 93% recovery.
J10195 had an average carbon blank value of 0.63 micrograms and a LCS value of 115% recovery. The matrix spike for TOX#2 was 94% recovery.

NA: Not Analyzed
ND: Not Detected

Approved by [signature]

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FEB [illegible] 1989
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Report of Quadruplicate Analyses for TOTAL ORGANIC HALOGEN

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20844
Report#: R87403
Phone #: 714-752-5452

Date Sampled: 1/27/89
Date Analyzed: 2/1/89
Date Received: 1/30/89

Lab#	Sample Description	TOX 1	TOX 2	TOX 3	TOX 4	DET. LIMIT
		(micrograms/liter)				
J10243	SCC-MW08-0.0-001	130	110	92	130	10
J10244	SCC-MW09-0.0-001	180	170	170	150	10

Both samples had an average carbon blank value of 0.80 micrograms and a LSC value of 129% recovery. The matrix spike for TOX# 1 was 88%.

NA: Not Analyzed
ND: Not Detected

Approved by Carolyn J. Leong

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Report of Quadruplicate Analyses for TOTAL ORGANIC HALOGEN

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87670
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Analyzed: 2/7/89
Date Received: 2/1/89

Lab#	Sample Description	TOX 1	TOX 2	TOX 3	TOX 4	DET. LIMIT
		(micrograms/liter)				
J20647	SCC-MW10-0.0-001	38	36	33	51	10
J20648	SCC-MW11-0.0-001	58	38	40	46	10

J20647 had an average carbon blank value of 0.49 micrograms and a LCS value of 106% recovery. The matrix spike for TOX#1 was 110% recovery.
J20648 had an average carbon blank value of 0.35 micrograms and a LCS value of 100% recovery. The matrix spike for TOX#3 was 98% recovery.

NA: Not Analyzed
ND: Not Detected

Approved by Carole J. Leone

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FEB 14 1989
QC OFFICER

METALS/CHLORIDES/NITRATES

MONTGOMERY LABORATORIES
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555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87094
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Completed: 2/2/89
Date Received: 1/24/89

Lab#	Sample I.D.	Cr VI mg/l	Cl mg/l	NO3-N mg/l	NO3 mg/l	Cr mg/l	Cd mg/l
J19773	SCC-MW01-0.0-001	<0.010	524	5.2	22.9	0.014	<0.003
LCS Sample #1		105%	100%		95%	91%	89%
LCS Sample #2		105%	93%		90%	92%	87%

Lab#	Sample I.D.	Zn mg/l	Cu mg/l
J19773	SCC-MW01-0.0-001	0.015	<0.009
LCS Sample #1		101%	103%
LCS Sample #2		99%	104%

Metals/
Cl/N/

NA: Not Analyzed
LCS: Laboratory Control Standard

Approved by [signature]

APPROVED
FEB
QC OFFICER

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(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87229
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Completed: 2/6/89
Date Received: 1/25/89

Lab#	Sample I.D.	Cd mg/l	Cr mg/l	Zn mg/l	Cu mg/l	NO3-N mg/l	NO3 mg/l
J10079	SCC-MW02-0.0-001	<0.003	0.022	<0.006	<0.009	7.4	33
J10080	SCC-MW05-0.0-001	<0.003	<0.014	<0.006	<0.009	0.30	1.3
LCS Sample #1		99%	94%	101%	92%	95%	
LCS Sample #2		99%	97%	101%	100%	90%	

Lab#	Sample I.D.	Cl mg/l
J10079	SCC-MW02-0.0-001	77
J10080	SCC-MW05-0.0-001	98
LCS #1		93%
LCS #2		93%

CAMP DRESSER & McKEE INC.
FEB 0 9 1989
IRVINE

NA: Not Analyzed
LCS: Laboratory Constrol Standards

Approved by

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FEB 0 8 1989
QC OFFICER

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a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Revised Report of Inorganic Analyses

Camp, Dresser & McKee		Job#:	437.0698
2302 Martin St.		PO#:	
Suite 275		Workorder#:	W20798
Irvine, CA 92715		Report#:	R87181
Attn: Thom Deane		Phone #:	714-752-5452

Date Sampled: 1/25/89 Date Received: 1/25/89
Date Completed: 1/31/89

Lab#	Sample I.D.	Cr VI mg/l
J19845	SCC-MW02-0.0-001 *	0.017
J19846	SCC-MW05-0.0-001	<0.010

Laboratory Control Standards #1: 105% recovery.
Laboratory Control Standards #2: 105% recovery.

* Sample identification corrected from MW01 to MW02

NA: Not Analyzed

Approved by Joan Oppenheimer

CAMP DRESSER & McKEE INC.
MAR 17 1989
IRVINE

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Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87551
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Completed: 2/6/89
Date Received: 1/30/89

Lab#	Sample I.D.	NO3-N mg/l	NO3 mg/l	Cl mg/l	Cd mg/l	Cr mg/l	Zn mg/l
J10486	SCC-MW03-0.0-001	0.92	4.0	302	<0.003	<0.014	<0.006
J10487	SCC-MW04-0.0-001	<0.2	<0.9	418	0.028	400	0.007
	LCS #1	90%		93%	100%	86%	110%
	LCS #2	95%		93%	100%	82%	110%

Lab#	Sample I.D.	Cu mg/l
J10486	SCC-MW03-0.0-001	<0.009
J10487	SCC-MW04-0.0-001	<0.009
	LCS #1	100%
	LCS #2	100%

CAMP DRESSER & McKEE INC
FEB 09 1989
IRVINE

NA: Not Analyzed
LCS: Laboratory Control Standards

Approved by

APPROVED
FEB 08 1989
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(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87514
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Completed: 2/1/89
Date Received: 1/30/89

Lab#	Sample I.D.	Cr VI mg/l
J10412	SCC-MW03-0.0-001	<0.010
J10413	SCC-MW04-0.0-001	33

Laboratory Control Standards #1: 105% recovery
Laboratory Control Standards #2: 105% recovery

NA: Not Analyzed

Approved by Carole J. Leong

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a division of James M. Montgomery, Consulting Engineers, Inc.
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(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20924
Report#: R87749
Phone #: 714-752-5452

Date Sampled: 2/1/89
Date Completed: 2/6/89
Date Received: 2/1/89

Lab#	Sample I.D.	Cd mg/l	Cr mg/l	Zn mg/l	Cu mg/l	Cr VI mg/l	NO3-N mg/l
J20727	SCC-MW04A-0.0-001	<0.003	<0.014	0.008	<0.009	0.010	5.9
	LCS #1	100%	86%	110%	100%	105%	90%
	LCS #2	100%	82%	110%	100%	105%	95%

Lab#	Sample I.D.	NO3 mg/l	Cl mg/l
J20727	SCC-MW04A-0.0-001	26	105
	LCS #1		93%
	LCS #2		93%

NA: Not Analyzed
LCS: Laboratory Control Standards

Approved by [signature]

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Report of Inorganic Analyses

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Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87337
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Completed: 2/6/89
Date Received: 1/26/89

Lab#	Sample I.D.	Cr mg/l	Cd mg/l	Zn mg/l	Cu mg/l	NO3-N mg/l	NO3 mg/l
J10194	SCC-MW06B-0.0-001	<0.014	<0.003	0.021	<0.009	8.7	38
J10195	SCC-MW07-0.0-001	<0.014	<0.003	<0.006	<0.009	5.4	24
LCS #1		86%	100%	110%	100%	95%	
LCS #2		82%	100%	110%	100%	90%	

Lab#	Sample I.D.	Cl mg/l
J10194	SCC-MW06B-0.0-001	66
J10195	SCC-MW07-0.0-001	744
LCS #1		93%
LCS #2		93%

NA: Not Analyzed
LCS: Laboratory Control Standards

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Report of Inorganic Analyses

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Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87302
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Completed: 1/31/89
Date Received: 1/26/89

Lab#	Sample I.D.	Cr VI mg/l
J10152	SCC-MW06B-0.0-001	<0.010
J10153	SCC-MW07-0.0-001	<0.010
J10154	SCC-SPK1-0.0-001	1.0

Laboratory Control Standards #1: 105% recovery
Laboratory Control Standards #2: 105% recovery

NA: Not Analyzed

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Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20844
Report#: R87397
Phone #: 714-752-5452

Date Sampled: 1/27/89
Date Completed: 2/6/89
Date Received: 1/30/89

Lab#	Sample I.D.	Cr mg/l	Cd mg/l	Zn mg/l	Cu mg/l	NO3-N mg/l	NO3 mg/l
J10243	SCC-MW08-0.0-001	<0.014	<0.003	0.009	<0.009	5.4	24
J10244	SCC-MW09-0.0-001	0.33	<0.003	0.008	<0.009	7.8	34
LCS #1		86%	100%	110%	100%	95%	
LCS #2		82%	100%	110%	100%	90%	

Lab#	Sample I.D.	Cl mg/l
J10243	SCC-MW08-0.0-001	145
J10244	SCC-MW09-0.0-001	248
LCS #1		93%
LCS #2		93%

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NA: Not Analyzed
LCS: Laboratory Constrol Standards

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FEB 08 1989
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Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20844
Report#: R87659
Phone #: 714-752-5452

Date Sampled: 1/27/89
Date Completed: 2/1/89
Date Received: 1/27/89

Lab#	Sample I.D.	Cr VI mg/l
J20639	SCC-MW08-0.0-001	<0.010
J20640	SCC-MW09-0.0-001	0.45

Laboratory Control Standards #1: 105% recovery
Laboratory Control Standards #2: 105% recovery

NA: Not Analyzed

Approved by Carlo J. Leon

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Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87664
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Completed: 2/6/89
Date Received: 2/1/89

Lab#	Sample I.D.	NO3-N mg/l	NO3 mg/l	Cl mg/l	Cd mg/l	Cr mg/l	Zn mg/l
J20647	SCC-MW10-0.0-001	0.43	1.9	139	<0.003	0.029	<0.006
J20648	SCC-MW11-0.0-001	2.0	8.8	110	<0.003	<0.014	<0.006
	LCS #1	90%		93%	100%	86%	110%
	LCS #2	95%		93%	100%	82%	110%

Lab#	Sample I.D.	Cu mg/l
J20647	SCC-MW10-0.0-001	<0.009
J20648	SCC-MW11-0.0-001	<0.009
	LCS #1	100%
	LCS #2	100%

NA: Not Analyzed
LCS: Laboratory Control Standards

Approved by [signature]

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Report of Inorganic Analyses

Camp, Dresser & McKee
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Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87658
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Completed: 2/2/89
Date Received: 2/1/89

Lab#	Sample I.D.	Cr VI mg/l
J20637	SCC-MW10-0.0-001	<0.010
J20638	SCC-MW11-0.0-001	<0.010

NA: Not Analyzed

Approved by

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Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87099
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Completed: 1/26/89
Date Received: 1/24/89

Lab#	Sample I.D.	Cr mg/l	Cd mg/l	Zn mg/l	Cu mg/l	Cr VI mg/l
J19778	SCC-DIW1-0.0-001	<0.014	<0.003	0.007	<0.009	<0.010
Laboratory Control Samples(LCS)		91%	89%	101%	103%	101%
		92%	87%	99%	104%	100%

NA: Not Analyzed

Approved by

PH/ELECTRIC CONDUCTIVITY

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Report of Inorganic Analyses

Camp, Dresser & McKee
2302 Martin St.
Suite 275
Irvine, CA 92715
Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20775
Report#: R87098
Phone #: 714-752-5452

Date Sampled: 1/24/89
Date Completed: 1/25/89
Date Received: 1/24/89

Lab#	Sample I.D.	Lab pH Units	EC umho/cm
J19774	SCC-MW01-0.0-001 #1	7.1	2530
J19775	SCC-MW01-0.0-001 #2	7.1	2500
J19776	SCC-MW01-0.0-001 #3	7.1	2520
J19777	SCC-MW01-0.0-001 #4	7.1	2560

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Report of Inorganic Analyses

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2302 Martin St.
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Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20798
Report#: R87236
Phone #: 714-752-5452

Date Sampled: 1/25/89
Date Completed: 1/30/89
Date Received: 1/25/89

Lab#	Sample I.D.	Lab pH Units	EC umho/cm
J10081	SCC-MW02-0.0-001 #1	7.5	1320
J10082	SCC-MW02-0.0-001 #2	7.5	1320
J10083	SCC-MW02-0.0-001 #3	7.5	1320
J10084	SCC-MW02-0.0-001 #4	7.5	1320
J10085	SCC-MW05-0.0-001 #1	7.4	1370
J10086	SCC-MW05-0.0-001 #2	7.4	1370
J10087	SCC-MW05-0.0-001 #3	7.4	1370
J10088	SCC-MW05-0.0-001 #4	7.4	1370

NA: Not Analyzed

Approved by Carla G. Leong

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QC OFFICER

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Report of Inorganic Analyses

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Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20876
Report#: R87558
Phone #: 714-752-5452

Date Sampled: 1/30/89
Date Completed: 2/1/89
Date Received: 1/30/89

Lab#	Sample I.D.	Lab pH Units	EC umho/cm
J10488	SCC-MW03-0.0-001	7.1	1950
J10489	SCC-MW03-0.0-001	7.1	1890
J10490	SCC-MW03-0.0-001	7.1	1900
J10491	SCC-MW03-0.0-001	7.1	1890
J10492	SCC-MW04-0.0-001	7.1	2120
J10493	SCC-MW04-0.0-001	7.1	2120
J10494	SCC-MW04-0.0-001	7.1	2120
J10495	SCC-MW04-0.0-001	7.1	2120

NA: Not Analyzed

Approved by Carole J. Leong

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Camp, Dresser & McKee
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Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20924
Report#: R87754
Phone #: 714-752-5452

Date Sampled: 2/1/89
Date Completed: 2/7/89
Date Received: 2/1/89

Lab#	Sample I.D.	Lab pH Units	EC umho/cm
J20728	SCC-MWO4A-0.0-001	7.7	1470
J20729	SCC-MWO4A-0.0-001	7.7	1470
J20730	SCC-MWO4A-0.0-001	7.7	1470
J20731	SCC-MWO4A-0.0-001	7.7	1470

NA: Not Analyzed

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Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20821
Report#: R87344
Phone #: 714-752-5452

Date Sampled: 1/26/89
Date Completed: 1/30/89
Date Received: 1/26/89

Lab#	Sample I.D.	Lab pH Units	EC umho/cm
J10196	SCC-MW06B-0.0-001	7.4	1290
J10197	SCC-MW06B-0.0-001	7.4	1290
J10198	SCC-MW06B-0.0-001	7.4	1290
J10199	SCC-MW06B-0.0-001	7.4	1290
J10200	SCC-MW07-0.0-001	9.1	3390
J10201	SCC-MW07-0.0-001	9.1	3390
J10202	SCC-MW07-0.0-001	9.1	3390
J10203	SCC-MW07-0.0-001	9.1	3390

NA: Not Analyzed

Approved by Carole T. Leong

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Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20844
Report#: R87404
Phone #: 714-752-5452

Date Sampled: 1/27/89
Date Completed: 2/1/89
Date Received: 1/30/89

Lab#	Sample I.D.	Lab pH Units	EC umho/cm
J10245	SCC-MW08-0.0-001	7.4	1420
J10246	SCC-MW08-0.0-001	7.4	1420
J10247	SCC-MW08-0.0-001	7.4	1430
J10248	SCC-MW08-0.0-001	7.4	1430
J10249	SCC-MW09-0.0-001	7.4	1700
J10250	SCC-MW09-0.0-001	7.3	1680
J10251	SCC-MW09-0.0-001	7.3	1680
J10252	SCC-MW09-0.0-001	7.3	1680

NA: Not Analyzed

Approved by Carl J. Leone

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Attn: Thom Deane

Job#: 437.0698
PO#:
Workorder#: W20905
Report#: R87671
Phone #: 714-752-5452

Date Sampled: 1/31/89
Date Completed: 2/7/89
Date Received: 2/1/89

Lab#	Sample I.D.	Lab pH Units	EC umho/cm
J20649	SCC-MW10-0.0-001	7.8	1410
J20650	SCC-MW10-0.0-001	7.8	1410
J20651	SCC-MW10-0.0-001	7.8	1410
J20652	SCC-MW10-0.0-001	7.8	1410
J20653	SCC-MW11-0.0-001	7.6	1480
J20654	SCC-MW11-0.0-001	7.6	1480
J20655	SCC-MW11-0.0-001	7.6	1480
J20656	SCC-MW11-0.0-001	7.6	1480

FEB 1989
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NA: Not Analyzed

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QC OFFICER

APPENDIX D

SECONDARY LABORATORY DATA
BROWN AND CALDWELL LABORATORIES

DUPLICATE PURGEABLE HALOCARBONS AND AROMATICS

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
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ANALYTICAL REPORT

LOG NO: P89-01-374

Received: 25 JAN 89
Reported: 07 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-374-1	SCC MW02-0.0 001	25 JAN 89

PARAMETER	01-374-1
EPA Method 602	
Date Analyzed	02/04/89
Dilution Factor, Times 1	1
1,2-Dichlorobenzene, ug/L	<0.5
1,3-Dichlorobenzene, ug/L	<0.5
1,4-Dichlorobenzene, ug/L	<0.5
Benzene, ug/L	<0.5
Chlorobenzene, ug/L	<0.5
Ethylbenzene, ug/L	<0.5
Toluene, ug/L	<0.5
Total Xylene Isomers, ug/L	<0.5

CAMP DRESSER & McKEE INC.
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BROWN AND CALDWELL LABORATORIES

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ANALYTICAL REPORT

LOG NO: P89-01-374

Received: 25 JAN 89
Reported: 07 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-374-1	SCC MW02-0.0 001	25 JAN 89

PARAMETER	01-374-1
Halocarbons (EPA 601)	
Date Analyzed	02/04/89
Dilution Factor, Times 1	1
1,1,2,2-Tetrachloroethane, ug/L	<0.5
1,1,2-Trichloroethane, ug/L	<0.5
1,1-Dichloroethane, ug/L	<0.5
1,1-Dichloroethene, ug/L	<0.5
1,2-Dichlorobenzene, ug/L	<0.5
1,2-Dichloroethane, ug/L	<0.5
trans-1,2-Dichloroethene, ug/L	<0.5
1,2-Dichloropropane, ug/L	<0.5
1,3-Dichlorobenzene, ug/L	<0.5
1,4-Dichlorobenzene, ug/L	<0.5
2-Chloroethylvinylether, ug/L	<0.5
Bromodichloromethane, ug/L	<0.5
Bromomethane, ug/L	<0.5
Bromoform, ug/L	<0.5
Chlorobenzene, ug/L	<0.5
Carbon Tetrachloride, ug/L	<0.5
Chloroethane, ug/L	<0.5
Chloroform, ug/L	<0.5
Chloromethane, ug/L	<0.5
Dibromochloromethane, ug/L	<0.5
Dichlorodifluoromethane, ug/L	<0.5
Methylene chloride, ug/L	<0.5
Tetrachloroethene, ug/L	0.8
1,1,1-Trichloroethane, ug/L	<0.5

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ANALYTICAL REPORT

LOG NO: P89-01-374

Received: 25 JAN 89
Reported: 07 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-374-1	SCC MW02-0.0 001	25 JAN 89

PARAMETER	01-374-1
Trichloroethylene, ug/L	82
Trichlorofluoromethane, ug/L	<0.5
Vinyl chloride, ug/L	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5

Jeffrey A. Erion, Laboratory Manager

BROWN AND CALDWELL LABORATORIES

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LOG NO: P89-01-438

Received: 30 JAN 89
Reported: 13 FEB 89

CAMP DRESSER & McKEE INC.

FEB 16 1989

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Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-438-1	SCC MW03-0.0 001	30 JAN 89
01-438-2	SCC MW04-0.0 001	30 JAN 89

PARAMETER	01-438-1	01-438-2
EPA Method 602		
Date Analyzed	02/10/89	02/09/89
Dilution Factor, Times 1	100	10
1,2-Dichlorobenzene, ug/L	<50	<5
1,3-Dichlorobenzene, ug/L	<50	<5
1,4-Dichlorobenzene, ug/L	<50	<5
Benzene, ug/L	<50	<5
Chlorobenzene, ug/L	<50	<5
Ethylbenzene, ug/L	3700	90
Toluene, ug/L	50	12
Total Xylene Isomers, ug/L	1100	55

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FAX: (818) 795-8579

LOG NO: P89-01-438

Received: 30 JAN 89
Reported: 13 FEB 89

Tom Deane
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Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-438-1	SCC MW03-0.0 001	30 JAN 89
01-438-2	SCC MW04-0.0 001	30 JAN 89

PARAMETER	01-438-1	01-438-2
Halocarbons (EPA 601)		
Date Analyzed	02/10/89	02/09/89
Dilution Factor, Times 1	100	10
1,1,2,2-Tetrachloroethane, ug/L	<50	<5
1,1,2-Trichloroethane, ug/L	<50	<5
1,1-Dichloroethane, ug/L	<50	49
1,1-Dichloroethene, ug/L	<50	18
1,2-Dichlorobenzene, ug/L	<50	<5
1,2-Dichloroethane, ug/L	210	18
trans-1,2-Dichloroethene, ug/L	<50	<5
1,2-Dichloropropane, ug/L	<50	<5
1,3-Dichlorobenzene, ug/L	<50	<5
1,4-Dichlorobenzene, ug/L	<50	<5
2-Chloroethylvinylether, ug/L	<50	<5
Bromodichloromethane, ug/L	<50	<5
Bromomethane, ug/L	<50	<5
Bromoform, ug/L	<50	<5
Chlorobenzene, ug/L	<50	<5
Carbon Tetrachloride, ug/L	<50	<5
Chloroethane, ug/L	<50	<5
Chloroform, ug/L	<50	<5
Chloromethane, ug/L	<50	<5
Dibromochloromethane, ug/L	<50	<5
Dichlorodifluoromethane, ug/L	<50	<5
Methylene chloride, ug/L	<50	<5
Tetrachloroethene, ug/L	<50	<5

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655

FAX: (818) 795-8579

LOG NO: P89-01-438

Received: 30 JAN 89
Reported: 13 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-438-1	SCC MW03-0.0 001	30 JAN 89
01-438-2	SCC MW04-0.0 001	30 JAN 89

PARAMETER	01-438-1	01-438-2
1,1,1-Trichloroethane, ug/L	<50	<5
Trichloroethylene, ug/L	110	<5
Trichlorofluoromethane, ug/L	<50	<5
Vinyl chloride, ug/L	<50	<5
cis-1,3-Dichloropropene, ug/L	<50	<5
trans-1,3-Dichloropropene, ug/L	<50	<5

Jeffrey A. Erion, Laboratory Manager

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655

FAX: (818) 795-8579

ANALYTICAL REPORT

LOG NO: P89-01-464

Received: 31 JAN 89
Reported: 14 FEB 89

CAMP DRESSER & McKEE INC.

FEB 17 1989

IRVINE

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-464-1	SCC MW11-0.0 001	31 JAN 89

PARAMETER	01-464-1
EPA Method 602	
Date Analyzed	02/13/89
Dilution Factor, Times 1	1
1,2-Dichlorobenzene, ug/L	<0.5
1,3-Dichlorobenzene, ug/L	<0.5
1,4-Dichlorobenzene, ug/L	<0.5
Benzene, ug/L	<0.5
Chlorobenzene, ug/L	<0.5
Ethylbenzene, ug/L	17
Toluene, ug/L	<0.5
Total Xylene Isomers, ug/L	1.8

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655
FAX: (818) 795-8579

ANALYTICAL REPORT

LOG NO: P89-01-464

Received: 31 JAN 89
Reported: 14 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-464-1	SCC MW11-0.0 001	31 JAN 89

PARAMETER	01-464-1
Halocarbons (EPA 601)	
Date Analyzed	02/13/89
Dilution Factor, Times 1	1
1,1,2,2-Tetrachloroethane, ug/L	<0.5
1,1,2-Trichloroethane, ug/L	<0.5
1,1-Dichloroethane, ug/L	1.6
1,1-Dichloroethene, ug/L	0.9
1,2-Dichlorobenzene, ug/L	<0.5
1,2-Dichloroethane, ug/L	17
trans-1,2-Dichloroethene, ug/L	<0.5
1,2-Dichloropropane, ug/L	<0.5
1,3-Dichlorobenzene, ug/L	<0.5
1,4-Dichlorobenzene, ug/L	<0.5
2-Chloroethylvinylether, ug/L	<0.5
Bromodichloromethane, ug/L	<0.5
Bromomethane, ug/L	<0.5
Bromoform, ug/L	<0.5
Chlorobenzene, ug/L	<0.5
Carbon Tetrachloride, ug/L	<0.5
Chloroethane, ug/L	<0.5
Chloroform, ug/L	<0.5
Chloromethane, ug/L	<0.5
Dibromochloromethane, ug/L	<0.5
Dichlorodifluoromethane, ug/L	<0.5
Methylene chloride, ug/L	<0.5
Tetrachloroethene, ug/L	<0.5
1,1,1-Trichloroethane, ug/L	<0.5

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655
FAX: (818) 795-8579

ANALYTICAL REPORT

LOG NO: P89-01-464

Received: 31 JAN 89
Reported: 14 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-464-1	SCC MW11-0.0 001	31 JAN 89

PARAMETER	01-464-1
Trichloroethylene, ug/L	26
Trichlorofluoromethane, ug/L	<0.5
Vinyl chloride, ug/L	<0.5
cis-1,3-Dichloropropene, ug/L	<0.5
trans-1,3-Dichloropropene, ug/L	<0.5

Jeffrey A. Erion, Laboratory Manager

QA/QC ANALYSES

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655
FAX: (818) 795-8579

ANALYTICAL REPORT

LOG NO: P89-01-419

Received: 26 JAN 89
Reported: 10 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-419-1	SCC SPK1-0.0 001	26 JAN 89

PARAMETER	01-419-1
Halocarbons (EPA 601)	
Date Analyzed	02/08/89
Dilution Factor, Times 1	10
1,1,2,2-Tetrachloroethane, ug/L	<5.0
1,1,2-Trichloroethane, ug/L	<5.0
1,1-Dichloroethane, ug/L	<5.0
1,1-Dichloroethene, ug/L	<5.0
1,2-Dichlorobenzene, ug/L	<5.0
1,2-Dichloroethane, ug/L	<5.0
trans-1,2-Dichloroethene, ug/L	<5.0
1,2-Dichloropropane, ug/L	<5.0
1,3-Dichlorobenzene, ug/L	<5.0
1,4-Dichlorobenzene, ug/L	<5.0
2-Chloroethylvinylether, ug/L	<5.0
Bromodichloromethane, ug/L	<5.0
Bromomethane, ug/L	<5.0
Bromoform, ug/L	<5.0
Chlorobenzene, ug/L	<5.0
Carbon Tetrachloride, ug/L	<5.0
Chloroethane, ug/L	<5.0
Chloroform, ug/L	<5.0
Chloromethane, ug/L	<5.0
Dibromochloromethane, ug/L	<5.0
Dichlorodifluoromethane, ug/L	<5.0
Methylene chloride, ug/L	<5.0
Tetrachloroethene, ug/L	<5.0
1,1,1-Trichloroethane, ug/L	<5.0

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655

FAX: (818) 795-8579

ANALYTICAL REPORT

LOG NO: P89-01-419

Received: 26 JAN 89
Reported: 10 FEB 89

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-419-1	SCC SPK1-0.0 001	26 JAN 89

PARAMETER	01-419-1
Trichloroethylene, ug/L	<5.0
Trichlorofluoromethane, ug/L	<5.0
Vinyl chloride, ug/L	<5.0
cis-1,3-Dichloropropene, ug/L	<5.0
trans-1,3-Dichloropropene, ug/L	<5.0

Jeffrey A. Erion, Laboratory Manager

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655
FAX: (818) 795-8579

ANALYTICAL REPORT

LOG NO: P89-01-419

Received: 26 JAN 89
Reported: 10 FEB 89

CAMP DRESSER & McKEE INC.
CAMP DRESSER & McKEE INC.
FEB 13 1989
FEB 13 1989
IRVINE
IRVINE

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-419-1	SCC SPK1-0.0 001	26 JAN 89

PARAMETER	01-419-1
EPA Method 602	
Date Analyzed	02/08/89
Dilution Factor, Times 1	10
1,2-Dichlorobenzene, ug/L	<5.0
1,3-Dichlorobenzene, ug/L	<5.0
1,4-Dichlorobenzene, ug/L	<5.0
Benzene, ug/L	82
Chlorobenzene, ug/L	<5.0
Ethylbenzene, ug/L	36
Toluene, ug/L	160
Total Xylene Isomers, ug/L	260

BROWN AND CALDWELL LABORATORIES

373 SOUTH FAIR OAKS AVENUE, PASADENA, CA 91105
(818) 795-7553 (213) 681-4655

FAX: (818) 795-8579

ANALYTICAL REPORT

LOG NO: P89-01-389

Received: 26 JAN 89
Reported: 30 JAN 89

CAMP DRESSER & McKEE INC.
FEB 3 1989
IRVINE

Tom Deane
Camp Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715

Project: 2279-111-GW-SAMP

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, GROUND WATER SAMPLES	DATE SAMPLED
01-389-1	SCC SPK1-0.0 001	26 JAN 89

PARAMETER	01-389-1
Hexavalent Chromium, mg/L	0.90

Jeffrey A. Erion, Laboratory Manager

APPENDIX E

TERTIARY LABORATORY DATA
TRUESDAIL LABORATORIES, INC.

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH — DEVELOPMENT — TESTING

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92680
AREA CODE 714 • 730-6239
AREA CODE 213 • 225-1564
CABLE: TRUELABS

CLIENT
Camp, Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715
Attention: Tom Dean

DATE
February 1, 1989

RECEIVED
January 23, 1989

LABORATORY NO.
31810

SAMPLE
Prepared Standard
Purchase Order Number 0570

INVESTIGATION

PURGEABLE ORGANICS (Volatiles) by EPA 8010/8020
GC-HECD and GC-PID

RESULTS

Constituent	Detection Limit* ug/kg	Concentration** ug/kg
Benzene	0.5	0.093
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	0.5	ND
2-Chlorethyvinyl ether	0.5	ND
Chloroform	0.5	ND
Chloromethane	0.5	ND
Dibromochloromethane	0.5	ND
bis (2-Chloroethyl) ether	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND

* Detection limits may vary with the type of sample and with the concentrations of other species present.
** ND: Not detected, below the detection limit.

This report applies only to the sample or samples investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

Constituent	Detection Limit* ug/kg	Concentration** ug/kg
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Ethyl Benzene	0.5	0.046
Methylene Chloride	0.5	ND
Methyl Ethyl Ketone	0.5	ND
Methyl Isobutyl Ketone	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	0.151
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
Vinyl Chloride	0.5	ND
Xylenes	0.5	0.237

* Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND: Not detected, below the detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Gregory W. Everett

Gregory W. Everett, Project Manager
Water and Waste Laboratory

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH — DEVELOPMENT — TESTING

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92680
AREA CODE 714 • 730-6239
AREA CODE 213 • 225-1564
CABLE: TRUELABS

CLIENT
Camp, Dresser & McKee
2302 Martin Street, Suite 275
Irvine, California 92715
Attention: Tom Dean

DATE February 2, 1989

RECEIVED January 23, 1989

LABORATORY NO. 31810

SAMPLE
P.O. No.: 0570

INVESTIGATION
Prepared Hexavalent Chrome Standards and Analysis

RESULTS

Parameter	Concentration, mg/L
Hexavalent Chromium	1.0

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Gregory W. Everett
Project Manager

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

APPENDIX F

CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME SO. CAL. CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No.

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA 64/602	PEST./PCB	TRACE METALS*	pH, EC QUAD	TOC QUAD	TOX QUAD	Cl NO3	Cr VI	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	MW01-0.0	001	1/24/89	1330	WELL #1	WATER		2		1	4	4	4	1	1	17		*Cd, Cr, Cu, ZN
SCC	TB01-0.0	001	1/24/89	TRAVEL B.	TRAVEL BLANK	WATER		2								2		TRAVEL BLANK
SCC	DIW01-0.0	001	1/24/89	1650	DIW	WATER				1					1	2		
SCC	EB1-0.0	001	1/24/89	1145	EQUIPMENT BLANK	WATER		2								2		
					ALL METALS FIELD FILTERED													

SAMPLED BY (SIGN) [signature], GR Monger

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-24-89 / 1830)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)
① DATE/TIME (/)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERED	[signature]	Carole Lionez	1/24/89 6:30PM

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME SOUTHERN CALIFORNIA CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No._____

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA (601/602)	PEST/PCB	TRACE METALS*	NO_3, Cl	TOX, Q	TOC, Q	SC/pH, Q	Cr VI	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	MWØ2-0.0	001	1-25-89	1015		WATER		2		1	1	4	4	4	1	17		*Cr, Cd, ZN, Cu
SCC	MWØ5-0.0	001		1500				2		1	1	4	4	4	1	17		*Cr, Cd, ZN, Cu
SCC	SCØ1-0.0	001		1155				2								2		
SCC	TBØ2-0.0	001	1-25-89	N/A		WATER		2								2		

ALL METALS FIELD FILTERED

SAMPLED BY (SIGN) [signature], GR Monger

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-25-89 / 1900hrs)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**
① DATE/TIME (/)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERED	[signature]	Carole Leong	1/25/89, 7:00 PM

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME SOUTHERN CALIFORNIA CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No. _____

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA	PEST./PCB	TRACE METALS	601/602					NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCL	MWP2-0.0	001	1-25-89	1015	MWP2	WATER					2					2		—

SAMPLED BY (SIGN) [signature], [signature], , ,

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-25-89/1928 hrs)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**
① [signature] DATE/TIME (/)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERED	[signature]	[signature]	1/25/89 728 pm

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

(UMM CAB)
Camp Dresser & McKee Inc.

CDM

PROJECT NAME SO. CAL. CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No. _____

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA 601/602	PEST./PCB	TRACE METALS*	TOC, Q	TOX, Q	pH, ec-Q	NO3, Q	CrVI	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	MWØ6b-0.0	001	1-26-89	1600	MWØ6b	WATER		2		1	4	4	4	1	1	17		*Cr, Cd, Zn, Cu
SCC	MWØ7-0.0	001	1-26-89	1120	MWØ7	WATER		2		1	4	4	4	1	1	17		*Cr, Cd, Zn, Cu
SCC	TBØ3-0.0	001	1-26-89	—	TRAVEL BLANK	WATER		2								2		
SCC	EBØ2-0.0	002	1-26-89	0845	EQUIPT BLANK	WATER		2								2		
SCC	SPK1-0.0	001	1-26-89	0900	SPK1	WATER		2							1	3		

METALS ARE FIELD FILTERED

SAMPLED BY (SIGN) [signature], GR Monger

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-26-89) 1852 Hrs	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)
① DATE/TIME (/)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERY	[signature]	[signature]	1/26/89 6:52

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME So. CAL. CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No. ____

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA 601/602	PEST./PCB	TRACE METALS Cr VI					NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	SPKI-0.0	001	1/26/89	0900	SPKI	WATER		2		1					3		

SAMPLED BY (SIGN) [signature], G R Monger, /

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-26-89 / 1906 hrs	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)
① Steven Wy DATE/TIME (1/26/89 / 7:06 p.m.)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERED	[signature]	Steven Wy	01/26/89 7:06 p.m.

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

JMM LAB.
Camp Dresser & McKee Inc.

CDM

PROJECT NAME SO. GAL. CHEMICAL

PROJECT NUMBER 2277-111-6W-SAMP

Field Log Book Reference No. ____

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA 601/602	PEST./PCB	TRACE METALS	TOX, Q	TOC, Q	PH/EC, Q	SO_4, Q	CrVI	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	MW08-0.0	001	1-27-89	1140	MW08	WATER		2		1	4	4	4	1	1	17		* Cd, Cu, Cr, Zn
SCC	MW09-0.0	001	1-27-89	1725	MW09	WATER		2		1	4	4	4	1	1	17		* Cd, Cu, Cr, Zn
SCC	EB03-0.0	001	1-27-89	1500	EQUIPT. BLANK	WATER		2								2		
SCC	TB04-0.0	001	1-27-89	N/A	TRAVEL BLANK	WATER		2								2		

ALL METALS FIELD FILTERED

SAMPLED BY (SIGN) [signature], A/R Monger

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-27-89, 1910)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**
① DATE/TIME (/)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERED	[signature]	[signature]	(1/27/89, 7:10)

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME SO. CAL. CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No.

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA 601/602	PEST./PCB	TRACE METALS	TOX-8	TOC-8	pH/C.C-8	CL, NO3	CTW	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	MW03-0.0	001	1-30-89	1055	MW03	WATER		2		1	4	4	4	1	1	17		*cd, cr, Zn, Cu
SCC	MW04-0.0	001	1-30-89	1600	MW04	WATER		2		1	4	4	4	1	1	17		*cd, cr, Zn, Cu
SCC	TB05-0.0	001	1-30-89	N/A	TRIP BLANK	WATER		2		X								

ALL METALS FIELD FILTERED

SAMPLED BY (SIGN) [signature], SWalling

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-30-89/1810)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**
① DATE/TIME (/)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERED	[signature]	[signature]	(1/30/89 C:10)

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME SO. CAL. CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No. _____

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA 601/602	PEST./PCB	TRACE METALS						NUMBER OF CONTAINERS	LOG BOOK PG NO.	REMARKS
SCC-	MW03-0.0	001	1-30-89	1055	MW03	WATER		2								2		EPA 601/602
SCC-	MW04-0.0	001	1-30-89	1600	MW04	WATER		2								2		EPA 601/602

SAMPLE SCC-MW04-0.0-001 CONTAINS Cr VI

SAMPLED BY (SIGN) [signature], [signature]

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-30-89 1823)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**
① [signature] DATE/TIME (01/30 6:23pm)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERY	[signature]	[signature]	01/30/89 6:23pm

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

CDM

PROJECT NAME: SO. CAL. CHEMICAL

PROJECT NUMBER: 2279-111-GW-SAMP

Field Log Book Reference No.

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG. (VOA601/602)	PEST./PCB	TRACE METALS	TOX-A.	TOC-A.	pH/EC-A	Q NO3	TSS	NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	MW10 - 0.0	001	1-31-89	1515	MW10	WATER	2		1	4	4	4	1	1	17		*Cr, Cd, Cu, Zn
SCC	MW11 - 0.0	001	1-31-89	1100	MW11	WATER	2		1	4	4	4	1	1	17		*Cr, Cd, Cu, Zn
SCC	TB06 - 0.0	001	1-31-89	N/A	TRIP BLANK	WATER	2								2		
SCC	EB04 - 0.0	001	1-31-89	0840	EQUIPT BLANK	WATER	2								2		

SAMPLED BY (SIGN): [signature]

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1-31-89/1810)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**	**RECEIVED BY (SIGN)**
① DATE/TIME (/)	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERY	[signature]	[signature]	(1/31/89 6:10)

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

BROWN & CALDWELL CAR

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.

P89-U1-4601

CDM

PROJECT NAME SO. CAL. CHEMICAL

PROJECT NUMBER 2279-111-GW-SAMP

Field Log Book Reference No.

SAMPLE NUMBER			DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES: EXTR. ORG.	VOA 601/602	PEST./PCB	TRACE METALS						NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
SCC	MW11-0.0	001	1-31-89	1100	MW11	WATER		2								2		

SAMPLED BY (SIGN) S Walton, [signature]

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
① [signature] DATE/TIME (1/31/89 / 1822)	② DATE/TIME (/)	DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)
RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)
① Cindy Zick DATE/TIME (1/31/89 1822	② DATE/TIME (/)	③ DATE/TIME (/)	④ DATE/TIME (/)	⑤ DATE/TIME (/)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
HAND DELIVERY	[signature]	Cindy Zick	(1/31/89 1822)

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

MONTGOMERY LABORATORIES

CHAIN OF CUSTODY RECORD

ANALYSES

Use 1 column per bottle

Project/job # 2279-111-GW-SAMP

Project Name: SO. CAL. CHEMICAL

Samplers: (Signature) SWallis

Sta. No.	Date	Time	Comp.	Grab	Station Location	No. of containers	601/602 VOA's	TOX-Q	TOC-Q	pH/EC-Q	METALS (G, Cd, Cu, Zn)	Cr VI	Q NO3-			Remarks
SCC-MW04A-0.0.001	2/1/89	1230			MW04A	17	2	4	4	4	1	1	1			METALS & CrVI FIELD FILTERED
SCC-TB07-0.0.001	2/1/89	N/A				2	2									

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	2/1/89 1706				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
		[signature]	2/1/89 5:06		

VISTA Laboratories Inc.

3830 High Court
Wheat Ridge, CO 80033
(303) 467-0630

Chain of Custody Record
Analytical Services Reques
(enclose with each shipping container)

Client: Montgomery Laboratories Contact: Kimberly Banks Address: 555 East Walnut Street
Program/Site: Phone: 818-796-9141 Pasadena, California 91109 1009

VISTA Project Number: 891189

Collected by: CDM

These fields may be used for field test results

Sample Identification	Date Sampled	Time	Sample Type	601/602															VISTA #	Total	
J10079 ~~J1079~~ VB 2/3/89	1/25/89	1015	WATER	X																2	001
J10080	1/25/89	1500	WATER	X																2	-002
J0089	1/25/89	1155	WATER	X																2	-003
J10090	1/25/89		WATER	X																2	-004
J10194	1/26/89	1600	WATER	X																2	-005
J10195	1/26/89	1120	WATER	X																2	-006
J10204	1/26/89	0845	WATER	X																2	-007
J10205	1/26/89	0900	WATER	X																2	-008
J10206	1/26/89		WATER	X																2	-009
J10243	1/27/89	1140	WATER	X																2	-010 ~~-00~~

VB 2/3

Condition on Receipt/Temp:

Comments:

Relinquished by: Representing: To Whom: Date/Time:

Relinquished by: Representing: To Whom: Date/Time:

Relinquished by: Representing: Rec. at VISTA By: CLBoner Date/Time: 2/3/89 0845

VISTA Laboratories Inc.

3830 High Court
Wheat Ridge, CO 80033
(303) 467-0630

Chain of Custody Record
Analytical Services Request
(enclose with each shipping container)

Client: Montgomery Laboratories Contact: Kimberly Banks Address: 555 East Walnut Street Pasadena California 91109 7009

Program/Site: Phone: 818-796-9141

VISTA Project Number: 891189

Collected by: CDM

These fields may be used for field test results

Sample Identification	Date Sampled	Time	Sample Type	602+601															Total	VISTA #
J10244	1/27/89	1745	WATER	X															2	-011
J10253	1/27/89	1500	WATER	X															2	-012
J10254	1/27/89		WATER	X															2	-013
J10486	1/30/89	1055	WATER	X															2	-014
J10487	1/30/89	1600	WATER	X															2	-015
J10504	1/30/89		WATER	X															2	-016
J20647	1/31/89	1515	WATER	X															2	-017
J20648	1/31/89	1100	WATER	X															2	-018
J20657	1/31/89	0840	WATER	X															2	-019

Condition on Receipt/Temp:

Comments:

Relinquished by: Representing: To Whom: Date/Time:

Relinquished by: Representing: To Whom: Date/Time:

Relinquished by: Representing: Rec. at VISTA By: C L Brown Date/Time: 2/3/89 0845

VISTA Laboratories Inc.

3830 High Court
Wheat Ridge, CO 80033
(303) 467-0630

Chain of Custody Record
Analytical Services Request
(enclose with each shipping container)

Client: Montgomery laboratories Contact: Kimberly Banks Address: 555 East Walnut Street Pasadena, California

Program/Site: Phone: 818-796-9141

VISTA Project Number: 891189

Collected by: CDM

91109 7009

These fields may be used for field test results

Sample Identification	Date Sampled	Time	Sample Type	601/602																Total	VISTA #
J20658	1/31/89		WATER	X																2	-020
J20727	2/1/89	1230	WATER	X																2	-021
J20732	2/1/89		WATER	X																2	-022

Condition on Receipt/Temp:

Comments:

Relinquished by: Representing: To Whom: Date/Time:

Relinquished by: Representing: To Whom: Date/Time:

Relinquished by: Representing: Rec. at VISTA By: [illegible] Date/Time: 2/2/89 0845