CAD 008 302 903
61

Chemical Waste Management, Inc.

October 28, 1993

Mr. Jeffrey Zelikson
Director
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105

Two Copies
Via Certified Mail
P 333-319-090

Mr. Dennis Dickerson
Regional Administrator
California Environmental Protection Agency
Region III
1011 North Grandview Avenue
Glendale, California 91201

Two Copies
Via Certified Mail
P 333-319-091

Subject: Oil & Solvent Process Company, Azusa, California - CAD 008302903
RCRA Facility Investigation
Report of Third Quarter 1993 Groundwater Monitoring Event

Gentlemen:

In accordance with the recommendations presented in the Oil & Solvent Process Company (OSCO) RCRA Facility Investigation (RFI) Final Report[1], and the OSCO RCRA Part B Permit Attachment D, Section E.3.d, Chemical Waste Management, Inc., (CWM) is submitting this report describing the Third Quarter 1993 Groundwater Monitoring Event at OSCO.

CWM is also submitting a computer diskette containing monitoring event analytical and groundwater elevation data. The electronic media submission is required under permit condition VI.8.A.

The data presented herein represent a "snapshot" of conditions at the OSCO facility. A thorough interpretation of conditions of, and relationships between groundwater quality (onsite and offsite), gradient, regional recharge, and regional withdrawals will be presented and interpreted in our Annual Groundwater Report for the OSCO facility. Offsite data for the report are collected periodically by our consultant, Meredith/Boli & Associates. The

[1]Meredith/Boli and Associates, RCRA Facility Investigation (Phase III), Groundwater Investigation, January 11, 1993.

annual report is scheduled for release in November 1993.

GROUNDWATER SAMPLING & ANALYSES

SAMPLE COLLECTION

Groundwater sampling by RUST Environment & Infrastructure (RUST) was scheduled for August 31, 1993. Problems with the portable generator used to power the electric submersible purge pumps delayed sampling by one day. All five OSCO wells were purged and sampled on September 1, 1993.

Split samples were collected at wells MW-01 and MW-02 at the request of the Los Angeles Regional Water Quality Control Board (RWQCB).

Details of the September 1 field activities are described in a letter report from RUST dated September 28, 1993 (Attachment 1).

SAMPLE SHIPMENT

Groundwater samples were shipped according to chain of custody protocol via Federal Express overnight delivery service on September 2, 1993, to WMX Technologies, Inc.'s Environmental Monitoring Laboratories (EML) in Geneva, Illinois, for laboratory analyses. The samples arrived intact at EML on September 3 at temperatures of 4°C or less.

A documentation discrepancy occurred in the shipment of the duplicate samples (Sample Point DUP). Methods 624 and 601/602 duplicates were received by EML in AquaPak 480, while the Chain of Custody Records (Attachments 2 and 3) indicated the samples were shipped in AquaPak 604. A transcription error by the sampling technician is assumed. Since AquaPaks 604 and 480 arrived at EML with seals intact, the integrity of the samples was not compromised. The RUST project manager was advised of the discrepancy and requested to institute procedures to avoid the error in future sampling events.

Custody of split samples was transferred directly to Mr. Wayne Chiou of the RWQCB on September 1.

Details of the sample shipment are described in the RUST letter report (Attachment 1).

GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were analyzed by EML according to EPA Methods 601/602 and 624. Analyses for xylenes and ketones (acetone, MEK, and MIBK), compounds detected in previous OSCO soil investigations, were included in the Method 624 analyses.

EML analytical method designations equate to EPA Methods as follows:

EML Method	EPA Method
VOMSBAO322	624
VOGCHAN201	601
VOGCPAN101	602

Laboratory certified analytical results and the Quality Report for Method 624 are presented in Attachment 2; Methods 601/602 results and Quality Report are presented in Attachment 3. Laboratory Quality Reports list dates of laboratory analyses and analysts' names.

The results of analyses are summarized in Tables 1 and 2 for Methods 624 and 601, respectively. No contaminants were detected by Method 602. Compounds detected in wells by Methods 624 and 601 were 1,1,1-Trichloroethane; 1,1-Dichloroethene; Tetrachloroethene; and Trichloroethene. Meta- and Para-xylenes, Ethylbenzene, and Toluene were detected at well MW-03 by Method 624. 1,2-Dichloroethane was detected at MW-04 by Methods 601 & 624.

QUALITY CONTROL RESULTS

Four quality control samples were collected in the field or provided by EML.

Duplicate at MW-02

Primary and duplicate samples were collected at well MW-02 and analyzed according to Methods 624 and 601/602 (Attachments 2 and 3, respectively). No compounds were detected by Method 602 analysis in the primary or duplicate samples.

Four compounds were detected in both the primary sample and duplicate samples by Methods 624 and 601. The relative percent differences[2] (RPD) for the four analytes detected in the primary and duplicate samples ranged between 0% and 2% by Method 624 (Table 3), and between 21% and 27% by Method 601 (Table 4).

Field Blanks

Field Blanks were collected at well MW-04 and analyzed according to Methods 601/602 and 624. Contamination was detected in an initial Field Blank vial analyzed by Method 624 (Table 5 and Attachment 2). The contaminants detected were 1,1,1-Trichloroethane; 1,1-Dichloroethene; Tetrachloroethene; and Trichloroethene. At the request of CWM, EML analyzed a second Field Blank vial by Method 624. Contamination was not detected in the second Method 624 Field Blank vial (Table 5, Attachment 4[3]).

Field Blank analytical results by Method 601 indicated Trichlorofluoromethane present at 2 ppb (Attachment 3). No contaminants were detected by Method 602. The four contaminants detected by Method 624 were not detected by Method 601.

Travel Blanks

One Travel Blank accompanied samples and was analyzed by Method 624. Contamination was not detected in the Travel Blank (Table 5 and Attachment 2).

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[2]RPD = |Primary - Duplicate| ÷ ((Primary + Duplicate)/2) x 100%

[3]Analytes are presented alphabetically. The first result for an analyte pair represents the initial Field Blank vial result. The second result reports for an analyte pair represents the second Field Blank vial result.

DISCUSSION

Groundwater Analytical Results

Compared to samples collected in the previous quarter, contaminant concentration samples appeared similar (MW-02[4], MW-03, and MW-05) to elevated (MW-01, MW-02[5] and MW-04). Toluene was detected in MW-03, and has been detected in that and other site wells sporadically in past monitoring events. Ethylbenzene and Xylenes were detected in MW-03 for the first time in any site well.

A discussion of the dynamics of the groundwater flow and contamination conditions at OSCO and the local study area will be presented in OSCO's Annual Groundwater Monitoring Report scheduled for release to the agencies in November 1993.

Field Blanks

Inquiry of, and discussion by RUST revealed no inconsistencies in field procedures that could have caused sample contamination (Attachment 1). No determination could be made for the presence of contaminants in the first analyzed field blank. CWM has requested RUST continue to pay close attention to sample collection and handling activities.

GROUNDWATER LEVEL MEASUREMENTS

Groundwater levels were measured in OSCO wells on July 1 & 30, August 30, and September 1 & 30. Those data are presented in Table 6. Groundwater elevation contour maps appear in Figures 1 through 5. The groundwater elevations declined approximately 10 feet during the quarter. The figures illustrate a shift in gradient direction from southeast (July 1) to southwest (through September 1) to south-southwest (September 30). Throughout the period, gradient magnitude was fairly constant at approximately 0.001.

---

[4]Relative to July 1993

[5]Relative to May 1993

DATA ON ELECTRONIC MEDIA

Attachment 5 contains one 5¼-inch, double sided, high density, DOS compatible diskette containing 4 ASCII files.

The file "OSCOANAL.TXT" contains the well and duplicate samples' analytical results of Third Quarter 1993 Groundwater Monitoring Event at OSCO. The file is fixed format, containing 432 records, each with 22 fields. Table 7 is a description of the variable fields. Each record contains the analytical result for one chemical analyte. The file was downloaded from our GIS\Key™ environmental database software and may contain fields superfluous to the agencies' needs. Also note that trailing zeros in the "DETECTION LIMIT" field, which appeared in reporting limits in certified, printed reports, have been eliminated. Table 8 provides a printed example of the "OSCOANAL.TXT" structure.

The file "BLANKS.TXT" contains the results of Travel and Field Blank analyses for the Third Quarter 1993 event, also downloaded from GIS\Key™. The file contains 144 records, each with 16 fixed length fields. Variable fields are described in Table 9. Table 10 provides a printed example of the "BLANKS.TXT" structure.

Chemicals are identified in "OSCOANAL.TXT" and "BLANKS.TXT" by the Chemical Abstract Service (CAS) Registry Number, not by the chemical name. CAS numbers and associated chemical names are presented in the file "CASNUM.TXT". Table 11 describes the fields for the file "CASNUM.TXT". The file contains 3863 records, each with three fields. Table 12 provides a printed example of the "CASNUM.TXT" structure.

Groundwater measurements at OSCO are presented in "WATERLEV.TXT". The file contains all groundwater level measurements through the September 30, 1993 measurement event. The file contains 146 records, each with five fields. Table 13 describes the fields for the file "WATERLEV.TXT". Table 14 provides a printed example of the "WATERLEV.TXT" structure.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system design to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, I can be reached at (510) 651-2964.

Sincerely,

CHEMICAL WASTE MANAGEMENT, INC.

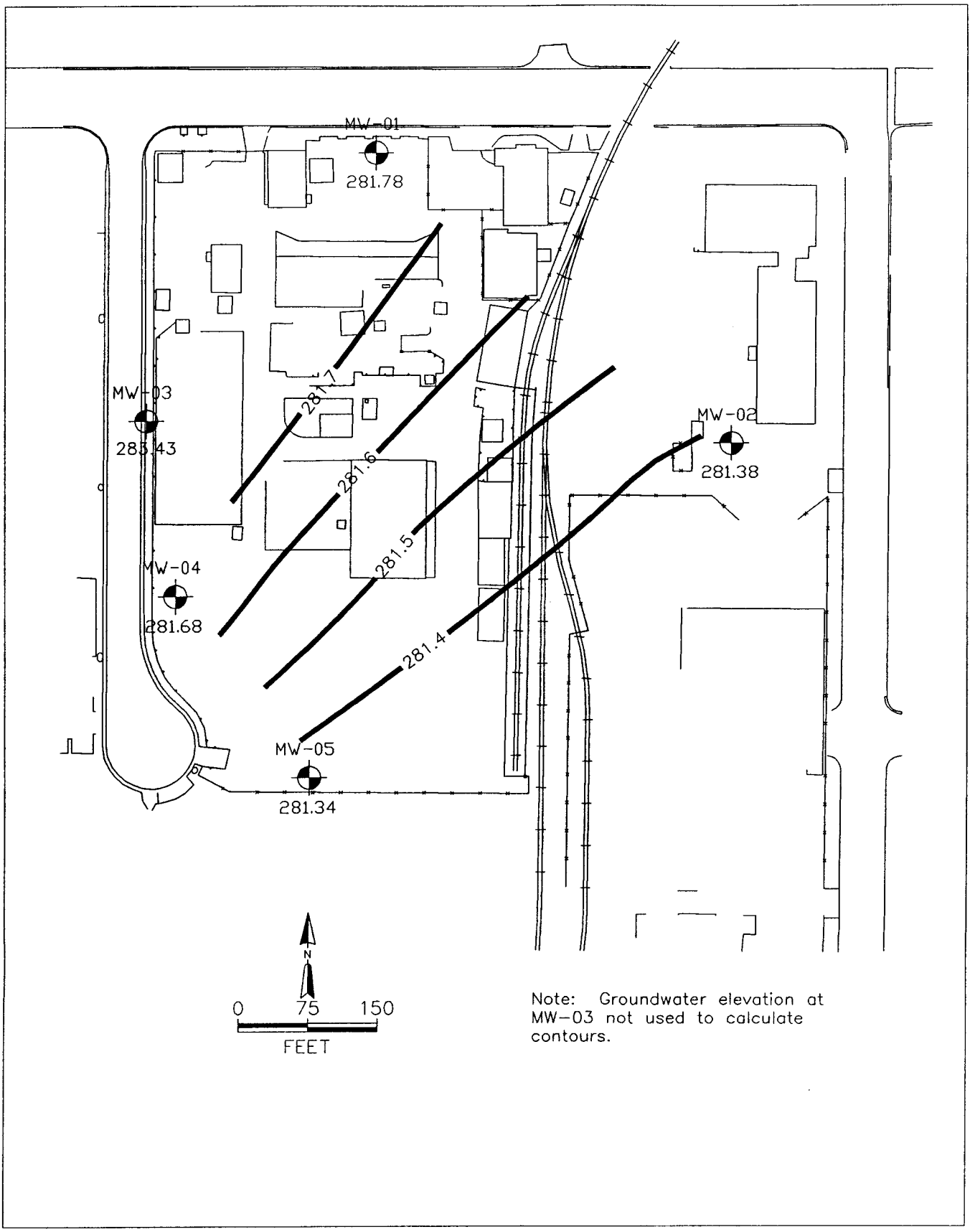
Marc Yalom, R.G.
Hydrogeologist
Treatment and Land Disposal Operations Group

Attachments (5)

/miy

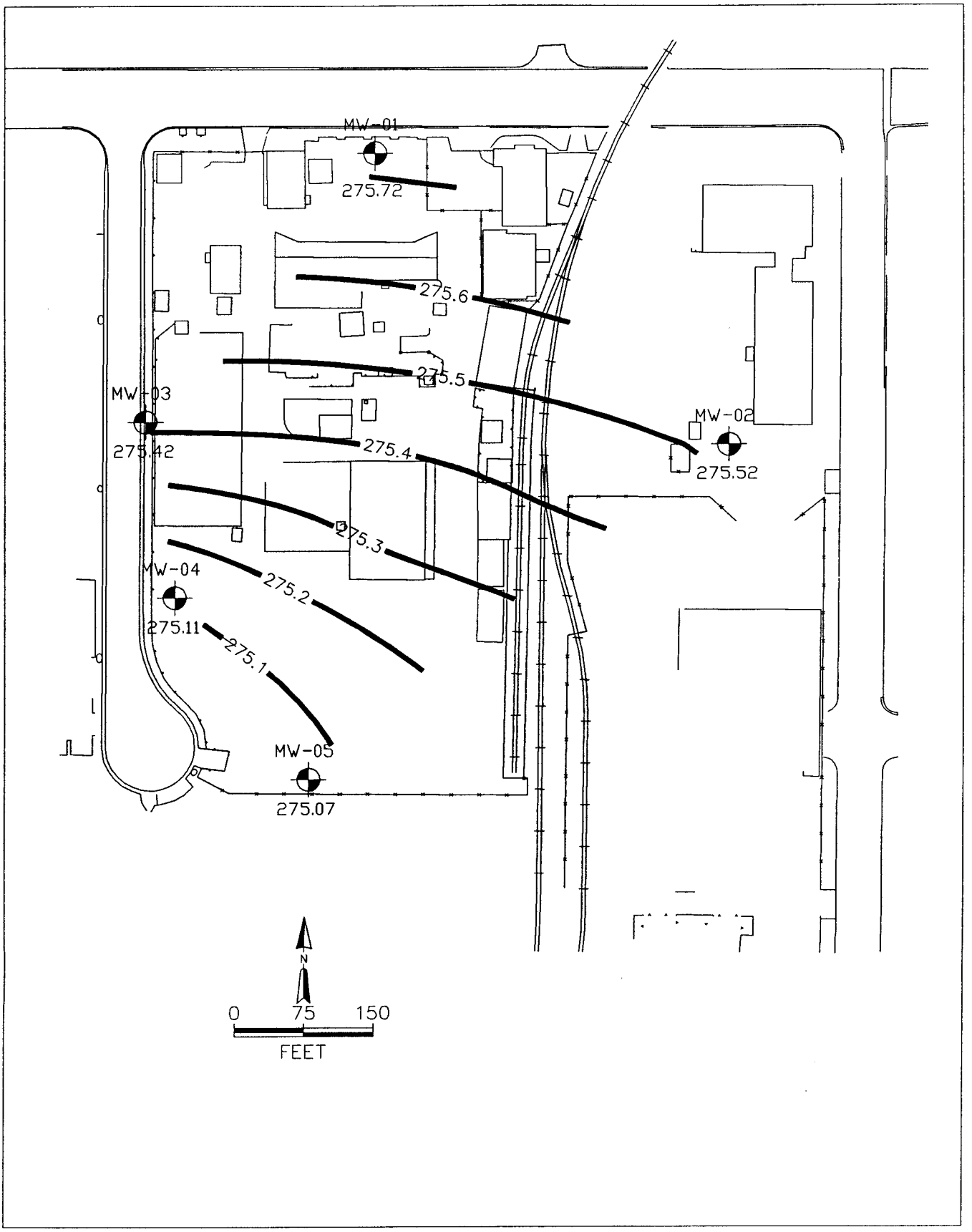
cc: Director, Los Angeles Regional Water Quality Control Board

FIGURES

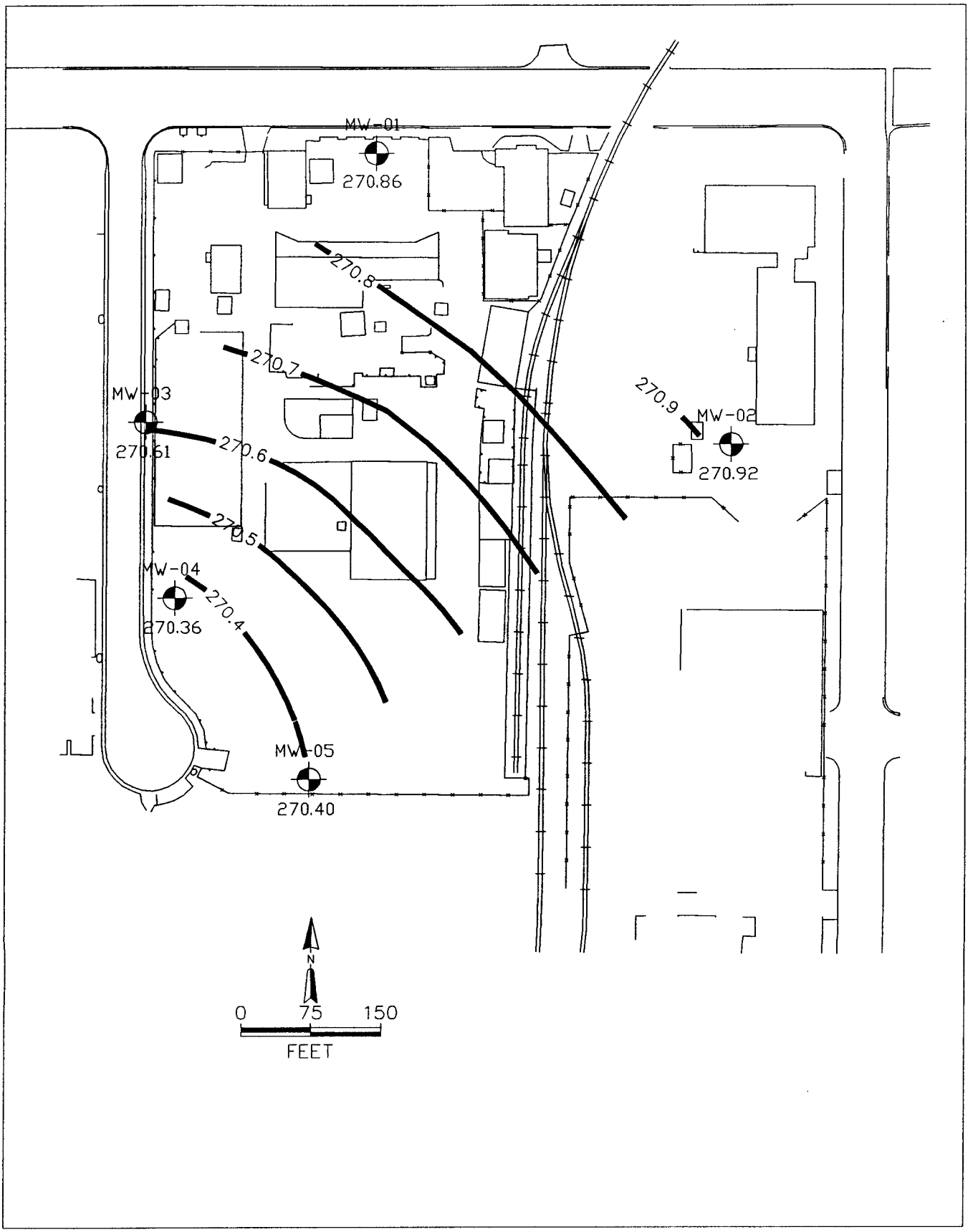


Note: Groundwater elevation at MW-03 not used to calculate contours.

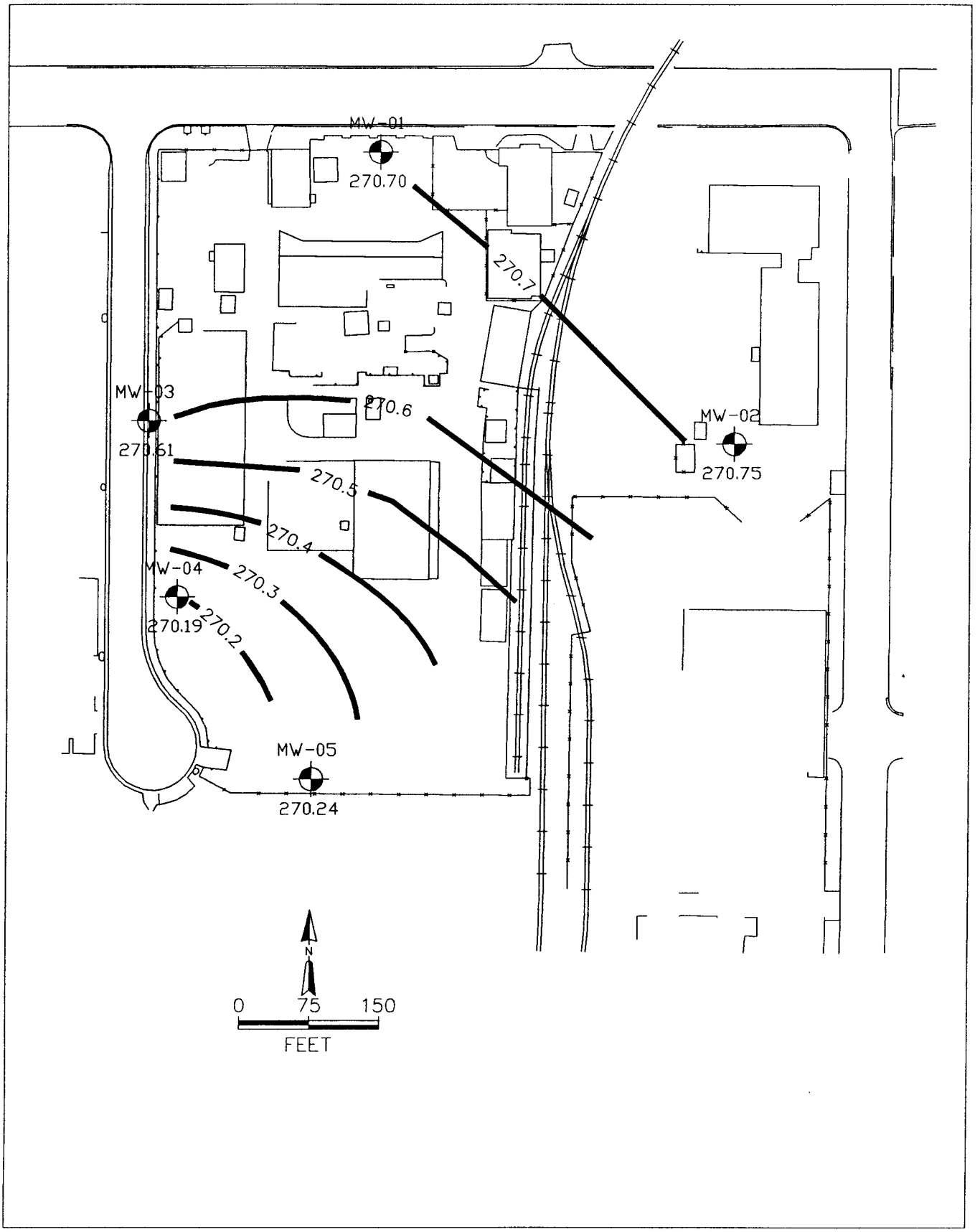
CHEMICAL WASTE MANAGEMENT, INC. OSCO FACILITY Azusa, California	TITLE: GROUNDWATER ELEVATION CONTOURS July 1, 1993	DWN: MIY	DES.:	PROJECT NO.: 68868803
		CHKD:	APPD:	FIGURE NO.: 1
		DATE: 8/27/93	REV.:	



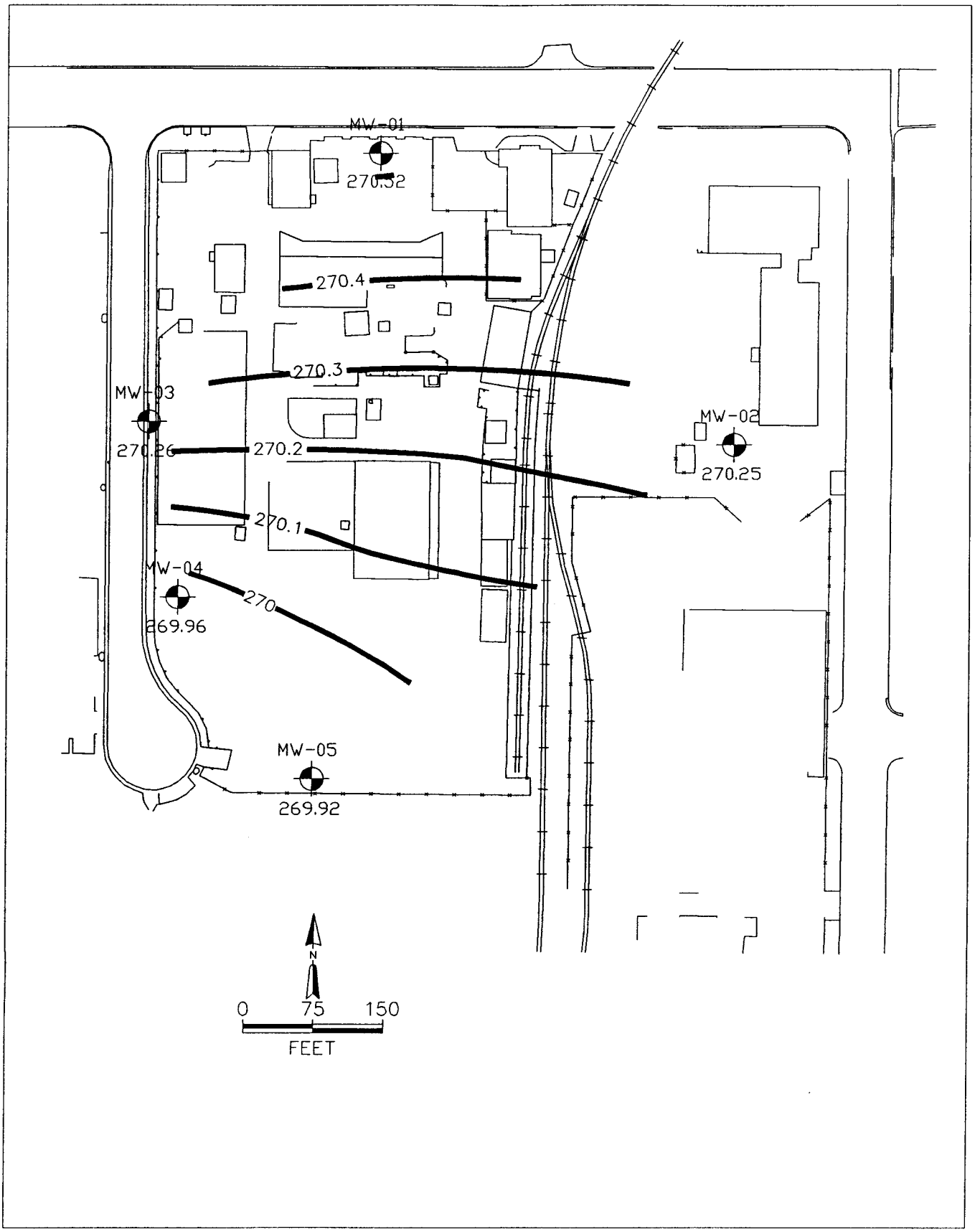
CHEMICAL WASTE MANAGEMENT, INC. OSCO FACILITY Azusa, California	TITLE: GROUNDWATER ELEVATION CONTOURS July 30, 1993	DWN: MIY	DES.:	PROJECT NO.: 68868803
		CHKD:	APPD:	FIGURE NO.: 2
		DATE: 9/28/93	REV.:	



CHEMICAL WASTE MANAGEMENT, INC. OSCO FACILITY Azusa, California	TITLE: GROUNDWATER ELEVATION CONTOURS August 30, 1993	DWN: MIY CHKD: DATE: 10/27/93	DES.: APPD: REV.:	PROJECT NO.: 68868803 FIGURE NO.: 3



CHEMICAL WASTE MANAGEMENT, INC. OSCO FACILITY Azusa, California	TITLE: GROUNDWATER ELEVATION CONTOURS September 1, 1993	DWN: MIY CHKD: DATE: 9/9/93	DES.: APPD: REV.:	PROJECT NO.: 68868803 FIGURE NO.: 4



CHEMICAL WASTE MANAGEMENT, INC. OSCO FACILITY Azusa, California	TITLE: GROUNDWATER ELEVATION CONTOURS September 30, 1993	DWN: MIY CHKD: DATE: 10/27/93	DES.: APPD: REV.:	PROJECT NO.: 68868803 FIGURE NO.: 5

TABLES

TABLE 1

CHEMICAL WASTE MANAGEMENT, INC.
OSCO FACILITY - AZUSA, CALIFORNIA
SUMMARY OF ANALYTICAL RESULTS
THIRD QUARTER 1993
EPA Method 624

SITE	DATE	Tetrachloro ethene ug/l	Trichloroethene ug/l	1,1,1-trichloro ethane ug/l	1,1-Dichloro ethene ug/l	1,2-Dichloro ethane ug/l	m + p Xylenes ug/l	Ethylbenzene ug/l	Toluene ug/l
MW-01	09/01/93	81.	54.	13.	17.	<5	<10	<5	<5
MW-02	09/01/93	450.	180.	68.	66.	<29	<29	<29	<29
MW-03	09/01/93	60.	45.	8.	9.	<5	27.	8.	11.
MW-04	09/01/93	620.	440.	96.	98.	30.	<25	<25	<25
MW-05	09/01/93	180.	38.	14.	14.	<7	<10	<7	<7

< = Not detected at indicated reporting limit --- = Not sampled and/or analyzed Values represent total concentrations unless noted

= Highest of Multiple Results ??? = Duplicate Results

TABLE 2

CHEMICAL WASTE MANAGEMENT, INC.
OSCO FACILITY - AZUSA, CALIFORNIA
SUMMARY OF ANALYTICAL RESULTS
THIRD QUARTER 1993
EPA Method 601

SITE	DATE	Tetrachloro ethene ug/l	Trichloroethene ug/l	1,1,1-trichloro ethane ug/l	1,1-Dichloro ethene ug/l	1,2-DCA ug/l
MW-01	09/01/93	69.	46.	15.	16.	<1
MW-02	09/01/93	480.	200.	84.	80.	<6
MW-03	09/01/93	45.	36.	7.	8.	<1
MW-04	09/01/93	310.	220.	48.	40.	24.
MW-05	09/01/93	180.	43.	<4	17.	<4

< = Not detected at indicated reporting limit --- = Not sampled and/or analyzed Values represent total concentrations unless noted

= Highest of Multiple Results ??? = Duplicate Results

TABLE 3

CHEMICAL WASTE MANAGEMENT, INC.
OSCO FACILITY - AZUSA, CALIFORNIA
SUMMARY OF DUPLICATE RESULTS
THIRD QUARTER 1993
EPA Method 624

Date: 10/27/93

SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE	SECOND DUPLICATE	THIRD DUPLICATE	FOURTH DUPLICATE	PRECISION SUMMARY	
SITE	MW-02	MW-02				RELATIVE PERCENT DIFFERENCE (RPD)	
FIELD SAMPLE NO	MW-02	DUP					
LAB CODE	EML	EML					
LAB SAMPLE NO	AH8120	AH8115					
CASE NO	93Q04	93Q04					
SDG NO	AQUAPAK 604	AQUAPAK 604				RPD MEASURED	RPD GOAL
BATCH NO	93-13018	93-13018					
COMPOUNDS UNITS ->	ug/l	ug/l				%	%
1,1,1-Trichloroethane	68.	69.				1	0
1,1-Dichloroethene	66.	66.				0	0
Tetrachloroethene	450.	440.				2	0
Trichloroethene	180.	180.				0	0

Hits only

TABLE 4

CHEMICAL WASTE MANAGEMENT, INC.
OSCO FACILITY - AZUSA, CALIFORNIA
SUMMARY OF DUPLICATE RESULTS
THIRD QUARTER 1993
EPA Method 601

SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE	SECOND DUPLICATE	THIRD DUPLICATE	FOURTH DUPLICATE	PRECISION SUMMARY	
SITE	MW-02	MW-02				RELATIVE PERCENT DIFFERENCE (RPD)	
FIELD SAMPLE NO	MW-02	DUP					
LAB CODE	EML	EML					
LAB SAMPLE NO	AH8124	AH8123					
CASE NO	93Q04	93Q04					
SDG NO	AQUAPAK 604	AQUAPAK 604				RPD MEASURED	RPD GOAL
BATCH NO	93-13019	93-13019					
COMPOUNDS UNITS ->	ug/l	ug/l				%	%
1,1,1-Trichloroethane	84.	68.				21	0
1,1-Dichloroethene	80.	61.				27	0
Tetrachloroethene	480.	390.				21	0
Trichloroethene	200.	160.				22	0

Hits only

TABLE 5

CHEMICAL WASTE MANAGEMENT, INC.
OSCO FACILITY - AZUSA, CALIFORNIA
SUMMARY OF BLANK RESULTS
THIRD QUARTER 1993
EPA Method 624

	BLANK TYPE	Field	Field	Travel			
	FIELD ID	01FB	01FB	TBK-MW01			
	LAB ID	AH8116	AH8116-A	AH8114			
	LAB CODE	EML	EML	EML			
	CASE NO	93Q04	93Q04	93Q04			
	SDG NO	AQUAPAK 480	AQUAPAK 480	AQUAPAK 480			
	BATCH NO	93-13018	93-13018	93-13018			
COMPOUNDS	UNITS ->	ug/l	ug/l	ug/l			
1,1,1-Trichloroethane		6.	<5	<5			
1,1-Dichloroethene		6.	<5	<5			
Tetrachloroethene		41.	<5	<5			
Trichloroethene		33.	<5	<5			

Hits only

TABLE 6

CHEMICAL WASTE MANAGEMENT, INC.
OSCO FACILITY - AZUSA, CALIFORNIA
SUMMARY OF GROUNDWATER ELEVATION DATA
THIRD QUARTER 1993

SITE	DATE	MP ELEVATION feet(2)	TIME	DEPTH TO WATER feet	△ WATER ELEV.(1) feet	WATER ELEV. feet(2)
MW-01	07/01/93	529.33	00:00	247.55	N/A	281.78
MW-01	07/30/93	529.33	13:20	253.61	-6.06	275.72
MW-01	08/30/93	529.33	15:35	258.47	-4.86	270.86
MW-01	09/01/93	529.33	00:00	258.63	-.16	270.70
MW-01	09/30/93	529.33	17:35	258.81	-.18	270.52
MW-02	07/01/93	525.65	00:00	244.27	N/A	281.38
MW-02	07/30/93	525.65	12:18	250.13	-5.86	275.52
MW-02	08/30/93	525.65	14:50	254.73	-4.60	270.92
MW-02	09/01/93	525.65	08:40	254.90	-.17	270.75
MW-02	09/30/93	525.65	18:20	255.40	-.50	270.25
MW-03	07/01/93	519.05	00:00	235.62	N/A	283.43
MW-03	07/30/93	519.05	12:37	243.63	-8.01	275.42
MW-03	08/30/93	519.05	15:10	248.44	-4.81	270.61
MW-03	09/01/93	519.05	16:55	248.44	.00	270.61
MW-03	09/30/93	519.05	18:00	248.79	-.35	270.26
MW-04	07/01/93	520.45	00:00	238.77	N/A	281.68
MW-04	07/30/93	520.45	13:55	245.34	-6.57	275.11
MW-04	08/30/93	520.45	15:45	250.09	-4.75	270.36
MW-04	09/01/93	520.45	12:58	250.26	-.17	270.19
MW-04	09/30/93	520.45	16:50	250.49	-.23	269.96
MW-05	07/01/93	519.67	00:00	238.33	N/A	281.34
MW-05	07/30/93	519.67	13:35	244.60	-6.27	275.07
MW-05	08/30/93	519.67	16:00	249.27	-4.67	270.40
MW-05	09/01/93	519.67	15:00	249.43	-.16	270.24
MW-05	09/30/93	519.67	17:13	249.75	-.32	269.92

1) Change in Water Elevation since last measurement
2) Measurements Based on Mean Sea Level
3) 00:00 - Time of measurement not recorded

TABLE 7
DEFINITIONS OF VARIABLE FIELDS

"OSCOANAL.TXT"

VARIABLE FIELD	COL	EXPLANATION	OPTIONS
SITE ID	15	Sample Source (i.e., well)	MW-01 MW-02 MW-03 MW-04 MW-05 (all left justified)
SAMPLE DATE	8	Sample Date	YYYYMMDD
SAMPLE TIME	5	Sample Time (24 hour clock)	HH:MM
TEMPLATE CONSTITUENT LIST	10	Code for test analytical method	EMLVOCS = Method 624 VOGCHAN201 = Method 601 VOGCPAN101 = Method 602
REPLICATE	2	Result is a Primary (P0) result or a Replicate result	Column 1: P = Primary D = Duplicate S = Split Column 2: # = Replicate number (0-9)
SEQUENCE NUMBER	3	GIS\Key Internal Reference	1-999
CHEMICAL ABSTRACT NUMBER	11	Chemical Abstract Service (CAS) Registry Number	######-##-#
ALIAS NUMBER	2	GIS\Key Internal Reference	1 - 99
UNITS	5		ug/l mg/l
PREPARATION FRACTION CODE	1		T = Total D = Dissolved
CONCENTRATION	11	Analytical Result	Left Justified Character String, blank = Not Detected
DETECTION LIMIT	10		Left Justified character string
DETECTION LIMIT FLAG	1		blank = Detected at greater than or equal to Detection Limit "<" = Not Detected
CRC	1	EPA CLP Concentration Qualification Code	Not Used by OSCO Labs

CRM	2	EPA CLP Method Qualification Code	Not Used by OSCO Labs
CRQ	2	EPA CLP Data Quality Qualification Code	Not Used by OSCO Labs
LAB REVIEW QUALIFIER	2	Qualifier Class	A = EML Qualifiers
LAB REVIEW CODE 1	2	Qualifier	See EML Qualifier List
LAB REVIEW CODE 2	2	Qualifier	See EML Qualifier List
LAB REVIEW CODE 3	2	Qualifier	See EML Qualifier List
CERTIFIED	1		blank
PROGRAM TYPE	1		A = Routine Monitoring

Table 7 Concluded

TABLE 8
ASCII FILE EXAMPLE

"OSCOANAL.TXT"

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
MW-01	1992081011:40EMLVOCS			P0	15	74-83-9		2ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	16	56-23-5		0ug/l	T		10	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	17	108-90-7		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	18	75-00-3		0ug/l	T		100	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	19	67-66-3		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	20	74-87-3		2ug/l	T		100	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	21	10061-01-5		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	22	124-48-1		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	23	100-41-4		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	24	75-09-2		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	25	127-18-4		2ug/l	T320		50					HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	26	108-88-3		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	27	156-60-5		1ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	28	10061-02-6		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	29	79-01-6		3ug/l	T280		50					HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	30	75-69-4		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	31	75-01-4		0ug/l	T		100	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	32	1330-20-7		7ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	33	78-93-3		2ug/l	T		100	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	34	108-10-1		4ug/l	T		100	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	35	67-64-1		0ug/l	T		340	<				HSMX				A	
MW-01	1992081011:40EMLVOCS			P0	36	95-47-6		0ug/l	T		50	<				HSMX				A	
MW-01	1992081011:40ENSEC0601			P0	1	71-55-6		0ug/l	T92		5					NQSB				A	
MW-01	1992081011:40ENSEC0601			P0	2	79-34-5		0ug/l	T		5	<								A	
MW-01	1992081011:40ENSEC0601			P0	3	79-00-5		0ug/l	T		5	<								A	
MW-01	1992081011:40ENSEC0601			P0	4	75-34-3		0ug/l	T		5	<								A	
MW-01	1992081011:40ENSEC0601			P0	5	75-35-4		5ug/l	T		5	<								A	
MW-01	1992081011:40ENSEC0601			P0	6	95-50-1		0ug/l	T		5	<								A	
MW-01	1992081011:40ENSEC0601			P0	7	107-06-2		0ug/l	T		5	<								A	

Variable Fields:

1-SITE ID
2-SAMPLE DATE
3-SAMPLE TIME
4-TEMPLATE CONSTITUENT LIST
5-REPLICATE
6-SEQUENCE NUMBER
7-CAS NUMBER
8-ALIAS NUMBER
9-UNITS
10-PREPARATION FRACTION CODE
11-CONCENTRATION
12-DETECTION LIMIT
13-DETECTION LIMIT FLAG
14-CRC
15-CRM
16-CRQ
17-LAB REVIEW QUALIFIER
18-LAB REVIEW CODE 1
19-LAB REVIEW CODE 220-LAB REVIEW CODE 3
21-CERTIFIED
22-PROGRAM

TABLE 9
DEFINITIONS OF VARIABLE FIELDS

"BLANKS.TXT"

VARIABLE FIELD	COL	EXPLANATION	OPTIONS
SAMPLE TYPE	1		W = (Ground)water
TEMPLATE CONSTITUENT LIST	10	Code for analytical method	EMLVOCS = Method 624 VOGCHAN201 = Method 601 VOGCPAN101 = Method 602
REPLICATE	2	Result is a Primary (P0) result or a Replicate result	Generally blank, Column 1: P = Primary D = Duplicate S = Split Column 2: # = Replicate number (0-9)
BLANK TYPE	2	X#	X: T = Travel F = Field #: Series number
CASE ID	5	EPA QC Protocol, OSCO uses YYX#	YY: Year X: Q - Quarterly #: Quarter Number
SAMPLE DEFINITION GROUP	15	EPA QC Protocol, OSCO uses AquaPak Number	
QA/QC ID	8	Laboratory Event Notification System (ENS) Number	93-XXXXX
CHEMICAL ABSTRACT NUMBER	11	Chemical Abstract Service (CAS) Registry Number	######-##-#
ALIAS NUMBER	2	GIS\Key Internal Reference	1 - 99
CONCENTRATION	11	Analytical Result	Left justified character string; blank = Not Detected
UNITS	5		ug/l mg/l
SEQUENCE NUMBER	3	Order the constituent appears in the TEMPLATE CONSTITUENT LIST	1-999
PREPARATION FRACTION CODE	1		T = Total D = Dissolved

DETECTION LIMIT	10		Left justified character string
DETECTION LIMIT FLAG	1		blank = Detected at greater than or equal to Detection limit "<" = Not Detected
PROGRAM TYPE	1		A = Routine Monitoring

Table 9 Concluded

TABLE 10
ASCII FILE EXAMPLE

"BLANKS.TXT"

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	71-55-6	0		ug/l		1T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	79-34-5	0		ug/l		2T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	79-00-5	0		ug/l		3T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-34-3	0		ug/l		4T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-35-4	5		ug/l		5T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	95-50-1	2		ug/l		6T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	107-06-2	0		ug/l		7T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	78-87-5	0		ug/l		8T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	541-73-1	2		ug/l		9T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	106-46-7	3		ug/l		10T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	110-75-8	2		ug/l		11T20			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	71-43-2	0		ug/l		12T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-27-4	0		ug/l		13T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-25-2	0		ug/l		14T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	74-83-9	2		ug/l		15T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	56-23-5	0		ug/l		16T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	108-90-7	0		ug/l		17T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-00-3	0		ug/l		18T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	67-66-3	0		ug/l		19T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	74-87-3	2		ug/l		20T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	10061-01-5	0		ug/l		21T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	124-48-1	0		ug/l		22T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	100-41-4	0		ug/l		23T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-09-2	0		ug/l		24T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	127-18-4	2		ug/l		25T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	108-88-3	0		ug/l		26T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	156-60-5	1		ug/l		27T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	10061-02-6	0		ug/l		28T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	79-01-6	3		ug/l		29T5			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-69-4	0		ug/l		30T10			<A
WEMLVOCS		T193Q02AQUAPAK		2035		93-11536	75-01-4	0		ug/l		31T10			<A

Variable Fields:

1-SAMPLE TYPE
2-TEMPLATE CONSTITUENT LIST
3-REPLICATE
4-BLANK TYPE
5-CASE ID
6-SAMPLE DEFINITION GROUP
7-QA/QC ID
8-CAS NUMBER
9-ALIAS NUMBER
10-CONCENTRATION
11-UNITS
12-SEQUENCE NUMBER
13-PREPARATION FRACTION CODE
14-DETECTION LIMIT
15-DETECTION LIMIT FLAG
16-PROGRAM TYPE

TABLE 11
DEFINITIONS OF VARIABLE FIELDS

"CASNUM.TXT"

VARIABLE FIELD	COL	EXPLANATION	OPTIONS
CAS NUMBER	11	Chemical Abstract Service (CAS) Registry Number	Generally ######-##-#, however, pseudonyms will begin "GIS".
ALIAS NUMBER	2	Number for Chemical Name Alias	Up to 99 different names for the same chemical (CAS).
CHEMICAL NAME	40	Chemical Name Alias	One of up to 99 alias names.

TABLE 12
ASCII FILE EXAMPLE

"CASNUM.TXT"

```
     1      2                    3
_________  ____________________________________
    50-00-0 0Formaldehyde
    50-00-0 1Methanal
    50-00-0 2Methylene oxide
    50-00-0 3Formalin
    50-06-6 0Phenobarbitol
    50-06-6 1Barbituric acid, 5-ethyl-5-phenyl
    50-07-7 0Mitomycin C
    50-14-6 0Calciferol
    50-14-6 1Vitamin D2
    50-14-6 2Ergocalciferol
    50-18-0 0Cyclophosphamide
    50-29-3 04,4'-DDT
    50-29-3 1Dichlorodiphenyltrichloroethane
    50-29-3 2DDT
    50-32-8 0Benzo(a)pyrene
    50-32-8 13,4-Benzopyrene
    50-32-8 2Benzo[a]pyrene (BaP)
    50-55-5 0Reserpine
    50-76-0 0Actinomycin D
    51-21-8 0Fluorouracil
    51-21-8 1Uracil, 5-fluoro-
    51-21-8 22,4(1H,3H)-Pyrimidinedione, 5-fluoro-
    51-28-5 02,4-Dinitrophenol
    51-28-5 1Phenol, 2,4-dinitro-
    51-28-5 2Dinitrophenol~ 2,4-
    51-43-4 0Epinephrine
    51-43-4 1Adrenalin
    51-44-5 03,4-Dichlorobenzoic acid
    51-52-5 0Uracil, 6-propyl-2-thio-
    51-52-5 1Propylthiouracil
    51-75-2 4Chloramin
    51-83-2 1Choline chloride, carbamate
    52-24-4 0Triethylenethiophosphoramide
    52-24-4 1Tris(1-aziridinyl)phosphine sulfide
GIS-310-060 0Adipates
_________
```

Variable Fields:

1-CAS NUMBER 2-ALIAS NUMBER 3-CHEMICAL NAME

TABLE 13
DATA FIELD DEFINITION

"WATERLEV.TXT"

VARIABLE FIELD	COL	EXPLANATION	OPTIONS
SITE ID	15	Measurement Source (i.e., Well)	MW-01 MW-02 MW-03 MW-04 MW-05 (all left justified)
DATE OF MEASUREMENT	8	Measurement Date	YYYYMMDD
TIME OF MEASUREMENT	5	Measurement Time (24-hour clock)	HH:MM 00:00 = Not Recorded
DEPTH TO WATER	7	Depth in feet to 2 decimal places	####.##
MEASUREMENT REFERENCE ELEVATION	8	Elevation MSL in feet to 2 decimal places	#####.##

TABLE 14
SUMMARY FILE EXAMPLE

"WATERLEV.TXT"

1	2	3	4	5
MW-01	1992081011:00		276.30	529.20
MW-01	1992091016:03		282.67	529.20
MW-01	1992091800:00		284.00	529.20
MW-01	1992101308:55		287.15	529.20
MW-01	1992102300:00		287.80	529.20
MW-01	1992111000:00		288.53	529.20
MW-01	1992121609:20		284.31	529.20
MW-01	1992122111:17		283.33	529.20
MW-01	1992122813:12		282.05	529.20
MW-01	1993010413:02		281.09	529.20
MW-01	1993011111:55		280.21	529.20
MW-01	1993012212:13		275.62	529.20
MW-01	1993020315:10		271.51	529.20
MW-01	1993021015:15		272.56	529.20
MW-01	1993030100:00		260.50	529.20
MW-02	1992081010:00		273.46	525.58
MW-02	1992091012:45		276.26	525.58
MW-02	1992091800:00		277.54	525.58
MW-02	1992101213:50		281.14	525.58
MW-02	1992102300:00		281.92	525.58
MW-02	1992111000:00		282.85	525.58
MW-02	1992121608:58		278.68	525.58
MW-02	1993012213:56		270.23	525.58
MW-02	1993020312:50		266.33	525.58
MW-02	1993021012:55		270.02	525.58
MW-02	1993030100:00		258.83	525.57
MW-03	1992081013:10		266.41	518.93
MW-03	1992091012:15		272.85	518.93
MW-03	1992091800:00		274.22	518.93
MW-03	1992101215:45		277.23	518.93
MW-03	1992102300:00		278.01	518.93
MW-03	1992122113:49		273.40	518.93
MW-03	1992122812:29		272.22	518.93
MW-03	1993010412:38		271.27	518.93
MW-04	1992081310:00		268.10	520.36
MW-04	1992091110:45		274.37	520.36

Variable Fields:

1-SITE ID
2-DATE OF MEASUREMENT
3-TIME OF MEASUREMENT
4-DEPTH TO WATER
5-MEASUREMENT REFERENCE ELEVATION

ATTACHMENT 1

RUST REPORT OF FIELD ACTIVITIES

RUST ENVIRONMENT & INFRASTRUCTURE

Formerly SEC Donohue

RUST Environment & Infrastructure Inc.
18401 Von Karman Avenue, Suite 550 - 5th Floor
Irvine, CA 92612
Tel. (714) 251-6400 FAX (714) 251-6444

OCT 1993
RECEIVED
Western Region
Environmental
Mgt. Dept.
C.W.M.I.

September 28, 1993 (Revised Oct. 6, 1993)

Mr. Marc Yalom, R.G.
Group Hydrogeologist
Chemical Waste Management, Inc.
Treatment and Landfill Disposal Operations Group
4227 Technology Drive
Fremont, California 94538-6337

SUBJECT: THIRD QUARTER GROUNDWATER SAMPLING AT OSCO AZUSA RCRA FACILITY, SEPTEMBER 1, 1993 (RUST E & I PROJECT NO. 80434.100) (WMX-EML ENS NOS. 93-13018, 93-13019 AND 93-13473)

Dear Marc:

The following report summarizes RUST E & I's field activities and measurements conducted at Chemical Waste Management's OSCO Azusa RCRA Facility for the 3rd quarter, 1993 groundwater sampling event (WMX-EML Event Nos. 93-13018, 93-13019 and 93-13473)

AquaPak Inspection

Two large and one small EML AquaPaks (Nos. 480, 604 and 2190, respectively) were received in the RUST E & I, Irvine office approximately one week prior to the planned sampling date. Contained in the WMX-EML provided AquaPaks were pre-labeled, pre-cleaned 40 ml glass sample bottles. Each bottle label was pre-printed with an identification number, testing method, target analyte(s), type of preservative, filtration requirements and a unique bar-code which the laboratory will use to read this information. Ms. Michelle Mason of RUST E & I (a WMX-EML-certified specialist) inspected the AquaPaks on August 31 and found them to be complete and labeled accurately. The WMX-EML bottle set numbers were as follows:

TABLE 1 EML SAMPLE BOTTLE IDENTIFICATION

SAMPLE POINT	PRIMARY 624 BOTTLE SET	DUPLICATE 624 BOTTLE SET	SPLIT 624 BOTTLE SET	PRIMARY 601/602 BOTTLE SET	DUPLICATE 601/602 BOTTLE SET
MW01	AH8114	----	AI0692	AH8121	----
MW02	AH8120	AH8115	AI0693	AH8124	AH8123
MW03	AH8118	----	----	AH8125	----
MW04	AH8119	----	----	AH8126	----
MW05	AH8117	----	----	AH8127	----
BLANK	AH8116	----	----	AH8122	----

Following the AquaPak inspection, it was discovered that the portable generator's electrical output connector was incompatible with the submersible pump plug at the wellhead, therefore, the sampling task was postponed one day so that RUST E & I personnel could locate a compatible generator or adapter.

Groundwater level measurements were taken on August 31 for use in the well purging calculations. The purge volume calculations and their results are found in **Table 2** below. The August 31 measurements verified the results of the August 30 survey, (see letter/report from Matt Katen to Marc Yalom dated September 16, 1993).

TABLE 2 PRE-SAMPLING PURGE VOLUMES

SAMPLE POINT	TOTAL CASING DEPTH (feet) (a)	DEPTH TO GROUNDWATER (feet) (b)	VOLUME FACTOR (gal./ft.) (c)	ONE WELL VOLUME [1] (gallons) (d)	THREE WELL VOLUMES [2] (gallons)
MW01	328	258.63	1.02	70.8	212.4
MW02	325	254.90	1.02	71.5	214.5
MW03	319.5	248.44	1.02	72.5	217.5
MW04	318	250.26	1.02	69.1	207.3
MW05	330	249.43	1.02	82.2	246.6

(1) ONE "WELL VOLUME" (d) = (a - b) x c
(2) THREE "WELL VOLUMES" = 3 x (d)

On September 1, 1993, RUST E & I personnel performed groundwater sampling at all five of the OSCO Azusa RCRA facility groundwater monitoring wells (MW01 through MW05). The task was performed on-site by Ms. Mason with the assistance of Mr. Dave Massingale of RUST E & I, Irvine, CA. The groundwater sampling work was performed according to WMX Groundwater Sampling Manual protocols and the CWM OSCO Site Specific Groundwater Monitoring Plan. The weather condition was "sunny and hot" and no difficulties were encountered during the collection of the groundwater samples.

Duplicate samples were collected at MW02, and Field Blanks were collected at MW04. The same level of care was used to collect the Field Blanks as was used to collect the well samples. Nothing out of the ordinary was done or observed during the pouring of the Field Blanks that could be used to explain detection of contamination in one of the field blank samples.

The samples from MW03, MW04 and MW05 were collected in the order specified in your May 18, 1993 letter to Donna Bierschenk of WMX-EML (Re: OSCO-Azusa Groundwater Monitoring, May 27, 1993 (Scheduled) Event, Site 567). Sampling instructions for MW01 and MW02 required that two split samples be taken for the Regional Water Quality Control Board (RWQCB). They were inserted in the sampling order as if they represented

duplicate 624 samples, otherwise the sampling order was the same as previously specified (see Table 6, attached) The sampling times are documented on the enclosed WMX-EML Field Information Forms.

The split samples and a trip blank (ENS No. 93-13473) were stored in the chilled AquaPak until they were surrendered to Mr. Wayne Chiou of the RWQCB at approximately 1:21 p.m. on the day of sampling. Mr. Chiou placed the trip blank and samples in his own cooler, and signed a chain-of-custody document; a wet-signature copy is provided as an enclosure to this report. All of the other samples were preserved in their corresponding AquaPak until they were delivered to WMX-EML, via Federal Express, for analysis.

Prior to sampling, each well was purged of three "well-volumes" of groundwater, making sure that pH, specific conductivity, and temperature had stabilized by the end of the purging activities. These purge-water parameters were measured using a Beckman pH and temperature meter and an Orion conductivity meter. Both instruments were calibrated prior to the start of the job, and the calibration was checked at least once every 4 hours and again at the end of the day. It should be noted that the conductivity meter was "zeroed and spanned" as part of its initial calibration. In addition, the sampling pump tubings were purged of at least 2 gallons of groundwater just before the sample bottles were filled.

All of the purged waters were placed in CWM-OSCO provided 55-gallon drums and properly labeled for cross-reference with the analytical data. A total of 21 drums were used and disposal arrangements for the drummed waters will need to be made by CWM.

The field notes have been typed and put in tabular form, and are provided on the following pages. Included in them are documentation of field meter calibrations, purge water field readings, actual purge volumes, sample times and number of drums of waste generated at each sample point.

If you wish to discuss any of these results or have any questions, please do not hesitate to contact me at (714) 251-6420.

Sincerely,

Matt Katen

Matt Katen, R.G.
Project Manager
RUST E & I

MWK:mwk
Enclosures

TABLE 3 PURGED WATER QUANTITIES				
SAMPLE POINT	THREE WELL VOLUME CALCULATED (gallons)	ACTUAL PURGE VOLUME (gallons)	SAMPLE TUBING PURGE VOLUME (gallons)	NO. OF DRUMS OF WASTE GENERATED
MW01	212.4	212	2	4
MW02	214.5	215	3	4
MW03	217.5	217	2	4
MW04	207.3	207	2	4
MW05	246.6	247	2	5

TABLE 4a FIELD MEASUREMENTS OF PURGED WATER - MW01 September 1, 1993					
INTERVAL	VOLUME (gallons)	pH	SPECIFIC CONDUCTIVITY	TEMP. (°C)	TIME
START	0.5	7.09	815	21.3	11:05
1/2	106	7.53	545	19.9	11:16
3/4	159	7.53	542	20.6	11:21
END	212	7.13	542	19.9	11:26

TABLE 4b FIELD MEASUREMENTS OF PURGED WATER - MW02 September 1, 1993					
INTERVAL	VOLUME (gallons)	pH	SPECIFIC CONDUCTIVITY	TEMP. (°C)	TIME
START	0.5	8.16	558	24.6	8:40
1/2	108	7.62	568	21.3	8:50
3/4	161	7.48	584	19.8	8:56
END	215	7.24	578	19.8	9:02

TABLE 4c FIELD MEASUREMENTS OF PURGED WATER - MW03
September 1, 1993

INTERVAL	VOLUME (gallons)	pH	SPECIFIC CONDUCTIVITY	TEMP. (°C)	TIME
START	0.5	7.62	389	24.2	16:55
1/2	109	7.54	515	20.2	17:05
3/4	163	7.53	510	20.2	17:10
END	217	7.27	516	19.7	17:15

TABLE 4d FIELD MEASUREMENTS OF PURGED WATER - MW04
September 1, 1993

INTERVAL	VOLUME (gallons)	pH	SPECIFIC CONDUCTIVITY	TEMP. (°C)	TIME
START	0.5	7.67	802	23.2	12:58
1/2	104	7.21	585	20.5	13:09
3/4	156	6.84	588	21.0	13:15
END	207	6.86	569	21.2	13:25

TABLE 4e FIELD MEASUREMENTS OF PURGED WATER - MW05
September 1, 1993

INTERVAL	VOLUME (gallons)	pH	SPECIFIC CONDUCTIVITY	TEMP. (°C)	TIME
START	0.5	7.97	453	25.0	15:00
1/2	124	7.40	525	20.7	15:14
3/4	186	7.45	536	21.2	15:20
END	247	7.12	536	20.1	15:26

TABLE 5 FIELD INSTRUMENT CALIBRATION RECORD

BECKMAN pH, TEMPERATURE METER

TIME/DATE	STANDARD	READING	TEMP. (°C)
07:50/9-1-93	7.00	7.01	23.2
07:50/9-1-93	10.00	9.90	23.2
07:50/9-1-93	4.00	4.00	23.2
11:00/9-1-93	7.00	6.95	29.6
15:00/9-1-93	7.00	6.92	33.3
18:00/9-1-93	7.00	7.08	25.3

ORION SPECIFIC CONDUCTIVITY METER

TIME/DATE	STANDARD (mmho)	READING (mmho)	TEMP. (°C)
07:55/9-1-93	1,000	1,000	22.7
07:55/9-1-93	1,000	1,000	25.0
11:00/9-1-93	1,000	1,000	28.7
15:00/9-1-93	1,000	1,000	32.3
18:05/ 9-1-93	1,000	990	25.6

TABLE 6 SAMPLE COLLECTION ORDER
September 1, 1993

MW01 AND SPLIT	MW02, DUPLICATE & SPLIT	MW03	MW04	MW04 FIELD BLANK	MW05
AH8114A1	AH8120A1	AH8118A1	AH8119A1	AH8116A1	AH8117A1
AI0692A1	AH8115A1	AH8125B1	AH8126B1	AH8122B1	AH8127B1
AH8121B1	AI0693A1	AH8125A1	AH8126A1	AH8122A1	AH8127A1
AH8121A1	AH8124B1	AH8118A2	AH8119A2	AH8116A2	AH8117A2
AH8114A2	AH8123B1	AH8125B2	AH8126B2	AH8122B2	AH8127B2
AI0692A2	AH8124A1	AH8125A2	AH8126A2	AH8122A2	AH8127A2
AH8121B2	AH8123A1	AH8118A3	AH8119A3	AH8116A3	AH8117A3
AH8121A2	AH8120A2	AH8125B3	AH8126B3	AH8122B3	AH8127B3
AH8114A3	AH8115A2	AH8125A3	AH8126A3	AH8122A3	AH8127A3
AH8121B3	AI0693A2	AH8118A4	AH8119A4	AH8116A4	AH8117A4
AH8121A3	AH8124B2	AH8125B4	AH8126B4	AH8122B4	AH8127B4
AH8114A4	AH8123B2	AH8125A4	AH8126A4	AH8122A4	AH8127A4
AH8121B4	AH8124A2				
AH8121A4	AH8123A2				
	AH8120A3				
	AH8115A3				
	AH8124B3				
	AH8123B3				
	AH8124A3				
	AH8123A3				
	AH8120A4				
	AH8115A4				
	AH8124B4				
	AH8123B4				
	AH8124A4				
	AH8123A4				

ATTACHMENT 2

ANALYTICAL RESULTS
and
QUALITY REPORT
METHOD 624

05-470.25

WMI Environmental Monitoring Laboratories, Inc.

Analytical Report Transmittal Memorandum

SEP 1993
RECEIVED
Western Region
Environmental
Mgt. Dept.
C.W.M.I.

Date: September 8, 1993

To: Client(s) - see below

From: Dave Lundquist

Subject: O.S.C.O. 93-13018

Please find enclosed the current Client Report, Field Information Forms, and Field Chain-of-Custody Records for the recently completed event at O.S.C.O..

The data has been thoroughly reviewed and compared to historical data. We have tried to provide a report that is complete and of known and documented quality. Please take a moment to review the enclosed report to insure it meets your expectations.

If you have any questions, don't hesitate to call Donna Bierschenk at (708)208-3100.

Report Distribution:

Name	Report Type
Marc Yalom*	ALL

* *Program Manager*

Enclosed are the analytical results for samples received from your facility. The results in the Client Report are for a single ENS (Event Notification System) number only. The sampling event at your facility may include multiple ENS numbers. A separate Client Report will be generated for each one.

It is the goal of WMI Environmental Monitoring Laboratories, Inc. to provide analytical data in a timely fashion, formatted in a way that our clients will find most useful.

If you have any questions concerning the form or content of this report, please contact the WMI EML Customer Operations Department:

Main Number (708) 208-3100
FAX Number (708) 208-1175

Note: Two designations may appear in the results column of your Client Report: NA or ND.

The designation NA (for "Not Analyzed") is used to identify analytes which were requested in the monitoring program, but for which no suitable testing methodology exists. NA may also indicate a dry well, broken sample bottle, insufficient sample volume, or other condition which precludes analysis for a sample.

The designation ND (for "Not Detected") is used to indicate that the analyte of interest was not found at or above the concentration listed under the EMLRL (EML Reporting Limit) heading.

Unless otherwise indicated, all analytes meet the requirements of holding time as specified in the method.

Deborah C. Hockman, Ph.D.

Deborah C. Hockman, Ph.D.
President
WMI Environmental Monitoring Laboratories, Inc.

DATA QUALIFIER COMMENT CODE DEFINITIONS

AR: Acid surrogate recoveries did not meet the acceptance criteria of the method. Oxidative degradation due to sample matrix is suggested.

BB: Broken bottle.

BL: The method blank concentration associated with this analyte did not meet the acceptance criteria of the method.

CX: The concentration of this compound exceeded the calibration used for this analysis. The concentration reported is estimated.

CU: Co-elution with another compound interferes with the quantitation of this compound. The concentration reported is estimated.

DL: The sample was diluted during analysis. Reporting limits have been adjusted where necessary.

DP: This sample was analyzed in duplicate. The relative percent difference between the two results did not meet the acceptance criteria of the method.

DW: Dry well.

HS: Headspace in sample exceeded laboratory control limit. The reported results of the analysis may be less than the actual value.

IS: The internal standard recoveries associated with this analysis did not meet the acceptance criteria of the method.

IV: The bottle did not contain enough sample to perform the analysis.

MP: 3-methylphenol and 4-methylphenol co-elute under the analytical conditions of the method, and can not be differentiated solely on the basis of their mass spectra. The concentrations reported may be either or both isomers.

MX: This sample was used as a matrix spike. The percent recovery did not meet the acceptance criteria of the method. The analysis of a quality control standard showed the analytical system was in control. The result reported may therfore be affected by matrix interferences.

NN: N-nitrosodiphenylamine can not be distinguished from diphenylamine using gas chromatography. The concentrations reported may be either or both compounds.

NQ: No standard qualifier code is in use for this qualification. See the associated comment.

NS: There was not enough sample to repeat this analysis.

PL: This result may be a product of contamination from phthalate plasticizers, which are a common lab contaminant.

PX: This sample required preservation in the field to a pH of less than 2. The pH was checked before analysis and did not have a pH of less than 2.

PY: This sample required preservation in the field to a pH of 4 to 5. The pH was checked before analysis and did not have a pH of 4 to 5.

PZ: This sample required preservation in the field to a pH of 12 or greater. The pH was checked before analysis and did not have a pH of 12 or greater.

QX: This sample was used as a matrix spike. The percent recovery did not meet the acceptance criteria of the method. The analysis of a quality control standard showed the analytical system was out-of-control. The analytical result for this parameter in the unspiked sample is suspect and may not be reported for regulatory compliance purposes.

SB: The analysis of this sample was performed by an approved subcontract laboratory.

ST: This compound is not stable in acidic water.

SU: The analysis of the surrogate with this sample did not meet the acceptance criteria of the method.

TX: The analysis for this parameter was conducted after the holding time specified in the method.

UN: This compound is not stable under the conditions of the analysis.

*** DATA QUALIFIER REPORT ***

8-SEP-93

Please be aware of the following information associated with the client reports for the ENS number 93-13018.

SAMPLE NO.	METHOD ID	ANALYTE	CODE	DILUTION FACTOR
AH8114-A2	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	2.5
AH8114-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8114-B0	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8115-A4	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	12.5
AH8115-A4	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8116-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8117-A3	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	3.33
AH8117-A3	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8118-A2	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	2
AH8118-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8119-A4	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	12.5
AH8119-A4	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8120-A2	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	14.29
AH8120-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	

**** END OF REPORT *****

*** SUPPLEMENTAL COMMENT REPORT ***

8-SEP-93

Any additional codes or comments for the samples under the ENS number 93-13018.

SAMPLE NO.	METHOD ID	ANALYTE	CODE	DILUTION FACTOR

**** NO ADDITIONAL COMMENTS FOUND *****

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: 01FB
Sample Type: WELL
Sample Number: AH8116

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	NA		FT		FDWDTWTC01
GROUNDWATER ELEV.	NA		FT MSL		FDWGWELWDT
PH FIELD	NA		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	NA		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	NA		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	NA		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	10.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	6.	5.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	6.	5.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	5.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
2-BUTANONE	ND	10.	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	20.	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	10.	UG/L		VOMSBA0322
ACETONE	ND	34.	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
BROMOFORM	ND	5.	UG/L		VOMSBA0322
BROMOMETHANE	ND	10.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	5.	UG/L		VOMSBA0322
CHLOROETHANE	ND	10.	UG/L		VOMSBA0322
CHLOROFORM	ND	5.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	10.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	5.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	5.	UG/L		VOMSBA0322
O-XYLENE	ND	10.	UG/L		VOMSBA0322
TETRACHLOROETHENE	41.	5.	UG/L		VOMSBA0322
TOLUENE	ND	5.	UG/L		VOMSBA0322
TRANS-1,2-DICHLOROETHENE	ND	10.	UG/L		VOMSBA0322
TRANS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
TRICHLOROETHENE	33.	5.	UG/L		VOMSBA0322
TRICHLOROFLUOROMETHANE	ND	10.	UG/L		VOMSBA0322
VINYL CHLORIDE	ND	10.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: DUP
Sample Type: WELL
Sample Number: AH8115

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	254.90		FT		FDWDTWTC01
GROUNDWATER ELEV.	270.75		FT MSL		FDWGWELWDT
PH FIELD	7.24		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	578		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	19.8		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	325.00		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	25.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	69.	25.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	50.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	50.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	25.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	66.	25.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	25.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	25.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
2-BUTANONE	ND	130	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	100	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	130	UG/L		VOMSBA0322
ACETONE	ND	300	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	25.	UG/L		VOMSBA0322
BROMOFORM	ND	25.	UG/L		VOMSBA0322
BROMOMETHANE	ND	25.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
CHLOROETHANE	ND	50.	UG/L		VOMSBA0322
CHLOROFORM	ND	25.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	50.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	25.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	50.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	25.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	63.	UG/L		VOMSBA0322
O-XYLENE	ND	25.	UG/L		VOMSBA0322
TETRACHLOROETHENE	440.	25.	UG/L		VOMSBA0322
TOLUENE	ND	25.	UG/L		VOMSBA0322
TRANS-1,2-DICHLOROETHENE	ND	25.	UG/L		VOMSBA0322
TRANS-1,3-DICHLOROPROPENE	ND	25.	UG/L		VOMSBA0322
TRICHLOROETHENE	180.	25.	UG/L		VOMSBA0322
TRICHLOROFLUOROMETHANE	ND	25.	UG/L		VOMSBA0322
VINYL CHLORIDE	ND	50.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOMSBA0322	Dilution factor 12.5 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW01
Sample Type: WELL
Sample Number: AH8114

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	258.63		FT		FDWDTWTC01
GROUNDWATER ELEV.	270.70		FT MSL		FDWGWELWDT
PH FIELD	7.13		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	542		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	19.9		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	328.00		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	10.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	13.	5.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	10.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	10.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	17.	5.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	5.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
2-BUTANONE	ND	25.	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	20.	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	25.	UG/L		VOMSBA0322
ACETONE	ND	60.	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
BROMOFORM	ND	5.	UG/L		VOMSBA0322
BROMOMETHANE	ND	10.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	5.	UG/L		VOMSBA0322
CHLOROETHANE	ND	10.	UG/L		VOMSBA0322
CHLOROFORM	ND	5.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	10.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	10.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	5.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	13.	UG/L		VOMSBA0322
O-XYLENE	ND	10.	UG/L		VOMSBA0322
TETRACHLOROETHENE	81.	5.	UG/L		VOMSBA0322
TOLUENE	ND	5.	UG/L		VOMSBA0322
TRANS-1,2-DICHLOROETHENE	ND	10.	UG/L		VOMSBA0322
TRANS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
TRICHLOROETHENE	54.	5.	UG/L		VOMSBA0322
TRICHLOROFLUOROMETHANE	ND	10.	UG/L		VOMSBA0322
VINYL CHLORIDE	ND	10.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOMSBA0322	Dilution factor 2.5 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW02
Sample Type: WELL
Sample Number: AH8120

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	254.90		FT		FDWDTWTC01
GROUNDWATER ELEV.	270.75		FT MSL		FDWGWELWDT
PH FIELD	7.24		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	578		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	19.8		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	325.00		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	29.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	68.	29.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	57.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	57.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	29.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	66.	29.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	29.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	29.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	29.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	29.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	29.	UG/L		VOMSBA0322
2-BUTANONE	ND	140	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	110	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	140	UG/L		VOMSBA0322
ACETONE	ND	340	UG/L		VOMSBA0322
BENZENE	ND	6.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	29.	UG/L		VOMSBA0322
BROMOFORM	ND	29.	UG/L		VOMSBA0322
BROMOMETHANE	ND	29.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	6.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	29.	UG/L		VOMSBA0322
CHLOROETHANE	ND	57.	UG/L		VOMSBA0322
CHLOROFORM	ND	29.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	57.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	29.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	57.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	29.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	71.	UG/L		VOMSBA0322
O-XYLENE	ND	29.	UG/L		VOMSBA0322
TETRACHLOROETHENE	450.	29.	UG/L		VOMSBA0322
TOLUENE	ND	29.	UG/L		VOMSBA0322
TRANS-1,2-DICHLOROETHENE	ND	29.	UG/L		VOMSBA0322
TRANS-1,3-DICHLOROPROPENE	ND	29.	UG/L		VOMSBA0322
TRICHLOROETHENE	180.	29.	UG/L		VOMSBA0322
TRICHLOROFLUOROMETHANE	ND	29.	UG/L		VOMSBA0322
VINYL CHLORIDE	ND	57.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOMSBA0322	Dilution factor 14.29 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW03
Sample Type: WELL
Sample Number: AH8118

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	248.44		FT		FDWDTWTC01
GROUNDWATER ELEV.	270.61		FT MSL		FDWGWELWDT
PH FIELD	7.27		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	516		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	19.7		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	319.50		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	27.	10.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	8.	5.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	8.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	8.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	9.	5.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	5.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
2-BUTANONE	ND	20.	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	20.	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	20.	UG/L		VOMSBA0322
ACETONE	ND	48.	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
BROMOFORM	ND	5.	UG/L		VOMSBA0322
BROMOMETHANE	ND	10.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	5.	UG/L		VOMSBA0322
CHLOROETHANE	ND	10.	UG/L		VOMSBA0322
CHLOROFORM	ND	5.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	10.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	8.	UG/L		VOMSBA0322
ETHYLBENZENE	8.	5.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	10.	UG/L		VOMSBA0322
O-XYLENE	ND	10.	UG/L		VOMSBA0322
TETRACHLOROETHENE	60.	5.	UG/L		VOMSBA0322
TOLUENE	11.	5.	UG/L		VOMSBA0322
TRANS-1,2-DICHLOROETHENE	ND	10.	UG/L		VOMSBA0322
TRANS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
TRICHLOROETHENE	45.	5.	UG/L		VOMSBA0322
TRICHLOROFLUOROMETHANE	ND	10.	UG/L		VOMSBA0322
VINYL CHLORIDE	ND	10.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOMSBA0322	Dilution factor 2 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW04
Sample Type: WELL
Sample Number: AH8119

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	250.26		FT		FDWDTWTC01
GROUNDWATER ELEV.	270.19		FT MSL		FDWGWELWDT
PH FIELD	6.86		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	569		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	21.2		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	318.00		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	25.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	96.	25.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	50.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	50.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	25.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	98.	25.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	30.	25.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	25.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
2-BUTANONE	ND	130	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	100	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	130	UG/L		VOMSBA0322
ACETONE	ND	300	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	25.	UG/L		VOMSBA0322
BROMOFORM	ND	25.	UG/L		VOMSBA0322
BROMOMETHANE	ND	25.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	25.	UG/L		VOMSBA0322
CHLOROETHANE	ND	50.	UG/L		VOMSBA0322
CHLOROFORM	ND	25.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	50.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	25.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	50.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	25.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	63.	UG/L		VOMSBA0322
O-XYLENE	ND	25.	UG/L		VOMSBA0322
TETRACHLOROETHENE	620.	25.	UG/L		VOMSBA0322
TOLUENE	ND	25.	UG/L		VOMSBA0322
TRANS-1,2-DICHLOROETHENE	ND	25.	UG/L		VOMSBA0322
TRANS-1,3-DICHLOROPROPENE	ND	25.	UG/L		VOMSBA0322
TRICHLOROETHENE	440.	25.	UG/L		VOMSBA0322
TRICHLOROFLUOROMETHANE	ND	25.	UG/L		VOMSBA0322
VINYL CHLORIDE	ND	50.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOMSBA0322	Dilution factor 12.5 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW05
Sample Type: WELL
Sample Number: AH8117

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	249.43		FT		FDWDTWTC01
GROUNDWATER ELEV.	270.24		FT MSL		FDWGWELWDT
PH FIELD	7.12		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	536		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	20.1		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	330.00		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	10.	UG/L		VOMSBAO322
1,1,1-TRICHLOROETHANE	14.	7.	UG/L		VOMSBAO322
1,1,2,2-TETRACHLOROETHANE	ND	13.	UG/L		VOMSBAO322
1,1,2-TRICHLOROETHANE	ND	13.	UG/L		VOMSBAO322
1,1-DICHLOROETHANE	ND	7.	UG/L		VOMSBAO322
1,1-DICHLOROETHENE	14.	7.	UG/L		VOMSBAO322
1,2-DICHLOROBENZENE	ND	10.	UG/L		VOMSBAO322
1,2-DICHLOROETHANE	ND	7.	UG/L		VOMSBAO322
1,2-DICHLOROPROPANE	ND	7.	UG/L		VOMSBAO322
1,3-DICHLOROBENZENE	ND	10.	UG/L		VOMSBAO322
1,4-DICHLOROBENZENE	ND	10.	UG/L		VOMSBAO322
2-BUTANONE	ND	33.	UG/L		VOMSBAO322
2-CHLOROETHYLVINYL ETHER	ND	27.	UG/L	ST	VOMSBAO322
4-METHYL-2-PENTANONE	ND	33.	UG/L		VOMSBAO322
ACETONE	ND	80.	UG/L		VOMSBAO322
BENZENE	ND	5.	UG/L		VOMSBAO322
BROMODICHLOROMETHANE	ND	7.	UG/L		VOMSBAO322
BROMOFORM	ND	7.	UG/L		VOMSBAO322
BROMOMETHANE	ND	10.	UG/L		VOMSBAO322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBAO322
CHLOROBENZENE	ND	7.	UG/L		VOMSBAO322
CHLOROETHANE	ND	13.	UG/L		VOMSBAO322
CHLOROFORM	ND	7.	UG/L		VOMSBAO322
CHLOROMETHANE	ND	13.	UG/L		VOMSBAO322
CIS-1,3-DICHLOROPROPENE	ND	7.	UG/L		VOMSBAO322
DIBROMOCHLOROMETHANE	ND	13.	UG/L		VOMSBAO322
ETHYLBENZENE	ND	7.	UG/L		VOMSBAO322
METHYLENE CHLORIDE	ND	17.	UG/L		VOMSBAO322
O-XYLENE	ND	10.	UG/L		VOMSBAO322
TETRACHLOROETHENE	180.	7.	UG/L		VOMSBAO322
TOLUENE	ND	7.	UG/L		VOMSBAO322
TRANS-1,2-DICHLOROETHENE	ND	10.	UG/L		VOMSBAO322
TRANS-1,3-DICHLOROPROPENE	ND	7.	UG/L		VOMSBAO322
TRICHLOROETHENE	38.	7.	UG/L		VOMSBAO322
TRICHLOROFLUOROMETHANE	ND	10.	UG/L		VOMSBAO322
VINYL CHLORIDE	ND	13.	UG/L		VOMSBAO322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOMSBAO322	Dilution factor 3.33 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: TBK-MW01
Sample Type: WELL
Sample Number: AH8114

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 8-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	10.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	5.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
2-BUTANONE	ND	10.	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	20.	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	10.	UG/L		VOMSBA0322
ACETONE	ND	34.	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
BROMOFORM	ND	5.	UG/L		VOMSBA0322
BROMOMETHANE	ND	10.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	5.	UG/L		VOMSBA0322
CHLOROETHANE	ND	10.	UG/L		VOMSBA0322
CHLOROFORM	ND	5.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	10.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	5.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	5.	UG/L		VOMSBA0322
O-XYLENE	ND	10.	UG/L		VOMSBA0322
TETRACHLOROETHENE	ND	5.	UG/L		VOMSBA0322
TOLUENE	ND	5.	UG/L		VOMSBA0322
TRANS-1,2-DICHLOROETHENE	ND	10.	UG/L		VOMSBA0322
TRANS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
TRICHLOROETHENE	ND	5.	UG/L		VOMSBA0322
TRICHLOROFLUOROMETHANE	ND	10.	UG/L		VOMSBA0322
VINYL CHLORIDE	ND	10.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 480
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54117
By: ZS

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: X Ø1 FB (Source Code)

SAMPLE DATE: 9 3 Ø 9 Ø 1 (YY / MM / DD)

SAMPLE TIME: 1 3 : 4 Ø (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:

Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13018

AquaPak™ CONTENT 05 Day TAT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8116-A	04	G	HCL 4C	VOMSBA0322	Y N	EML OK	
~~AH8116-B~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOMSBA0322~~	Y N	~~EML~~ Cancel	~~TRR~~ 28/21
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 10:00 (2400 HR.)
   Signature: [signature] Seal #: 54117 Intact: yes

   I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

   I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub. Contr. # 480 Sealed By: M Mason (Print) Date: 9/1/93 Time: 19:00 (2400 HR.)
   Signature: [signature] Seal #: 59514 Intact: yes

LAB USE ONLY
Opened By: (Signature) [signature] Date: 9/3/93 Time: 9:49 (2400 HR.)
AquaPak™/Sub. Contr. # 480 Temp.°C 3 Seal # 59514 Intact. y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 5621

Bottle Set: AH8116

Sample Point: X01FB (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | | N | (circle one) Sampling Equipment ..... Dedicated | Y | | N | (circle one)

Purging Device		A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X-_____ PURGING OTHER (SPECIFY)
Sampling Device		B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X-_____ SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material		A-Teflon	C-Polypropylene	E-Polyethylene	X-_____ PURGING OTHER (SPECIFY)
Sampling Material		B-Stainless Steel	D-PVC		X-_____ SAMPLING OTHER (SPECIFY)
Tubing-Purging		A-Teflon	D-Polypropylene	F-Silicon	X-_____ PURGING OTHER (SPECIFY)
Tubing-Sampling		B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X-_____ SAMPLING OTHER (SPECIFY)
		C-Rope X-_____ (SPECIFY)			
Filtering Devices 0.45 μ:		A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	(ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	(ft)	Depth to water From land surface	(ft)
Groundwater Elevation	(ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	(ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp. (° C)
1st	(STD)	1st	μm/cm at 25° C		
2nd	(STD)	2nd	μm/cm at 25° C	(other parameter)	value / units
3rd	(STD)	3rd	μm/cm at 25° C	(other parameter)	value / units
4th	(STD)	4th	μm/cm at 25° C	(other parameter)	value / units

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Turbidity: _____

Weather Conditions: Wind Speed (if applicable) 0-5 mph Direction NE Precipitation Y/N Outlook Sunny, 90°F

Specific Comments:

Field Blank Collected @ MW04

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) [signature] (Signature) Employer: RUST E&I

EML FF-2A 4/90

REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP 480
AquaPak™ #
Date Sealed 930821 (YY / MM / DD)
Seal # 54117
By:

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WDUP (Source Code)

SAMPLE DATE: 930901 (YY / MM / DD)

SAMPLE TIME: 10:05 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:
Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13018 AquaPak™ CONTENT 05 Day TAT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8115-A	04	G	HCL 4C	VOMSBA0322	Y N	EML OK	
~~AH8115-B~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOMSBA0322~~	Y N	~~EML~~ Cancel	~~TDK~~ 8/8/21
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 10:00 (2400 HR.)
   Signature: Michelle Mason Seal #: 54117 Intact: yes

   I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

   I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9/1/93 Time: 19:00 (2400 HR.)
   Signature: Michelle Mason Seal #: 59514 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 9:49 (2400 HR.)
AquaPak™/Sub. Contr. # 480 Temp.°C 3 Seal # 59514 Intact. y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8115

Sample Point: WDUP (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	0840	04	71.5	215.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one) Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	525.65 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	254.90 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.75 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	325.00 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.	(other parameter)	value	units
1st	7.24 (STD)	1st	578	μm/cm at 25° C	98 (° C)			
2nd	(STD)	2nd		μm/cm at 25° C				
3rd	(STD)	3rd		μm/cm at 25° C				
4th	(STD)	4th		μm/cm at 25° C				

FIELD COMMENTS

Sample Appearance: clear liquid (if applicable) Odor: None Color: Lt. Grayish/Clear Turbidity: Slight

Weather Conditions: Wind Speed N/A Direction Ø Precipitation Y/N Ø Outlook Sunny ~ 70°F

Specific Comments: (325' Total Depth) - (254.90' D.T.W) = 70.1 FT. of water x 1.02 = 71.5 gal/casing x 3 = 215 gal purge

Beckman Meter used for pH, Temp. ORION Meter for SC

Duplicate Sample Collected @ MW02

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) Michelle Allen (Signature) Employer: RUST E&I

EML FF-2A 4/90

REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 480
Date Sealed 93 10 8 21 (YY / MM / DD)
Seal # 54117
By: DS

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WMW011 (Source Code)

SAMPLE DATE: 93 09 01 (YY / MM / DD)

SAMPLE TIME: 12 05 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:
Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13018 AquaPak™ CONTENT 05 Day TAT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8114-A	04	G	HCL 4C	VOMSBA0322	Y N	EML OK	
AH8114-B	01	G	HCL 4C	VOMSBA0322	Y N	EML OK	TBK
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		TB Lab # 9-3-93 JR
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (Print) Michelle Mason Date: 8/31/93 Time: 10:00 (2400 HR.)
   Signature: Michelle Mason Seal #: 54117 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 480 Sealed By: M Mason (Print) Date: 9/1/93 Time: 19:00 (2400 HR.)
   Signature: Michelle Mas Seal #: 59514 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 9:49 (2400 HR.)
AquaPak™/Sub. Contr. # 480 Temp.°C 3 Seal # 59514 Intact. Y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8114

Sample Point: WMW011 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	1105	04	70.8	212.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one) Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	579.33 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	258.63 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.70 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	328.00 (ft)	Stickup	(ft)

	ph	spec. cond. (μm/cm at 25° C)	Sample Temp. (° C)
1st	7.13 (STD)	542	19.9
2nd	(STD)		
3rd	(STD)		
4th	(STD)		

(other parameter)	value	units

FIELD COMMENTS

Sample Appearance: Liquid (if applicable) Odor: None Color: ~~Lt Orange/BRN~~ Clear MMM 9/1/93 Turbidity: Slight

Weather Conditions: Wind Speed 0 Direction NA Precipitation Y(N) Outlook Overcast ~80° F

Specific Comments: (328' Total Depth) - (258.63' D.T.W.) = (69.37 FT. of WATER) x 1.02 = 70.8 gal/casing x 3 = 212 gal/purge.

Beckman Meter Used for pH, Temp. ORION Meter Used for SC.

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) [signature] (Signature) Employer: RUST E&I

EML FF-2A 4/90

REGION

Double

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 9 3 0 8 21 (YY / MM / DD)
Seal # 54075
By: ZS

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WMW02 (Source Code)

SAMPLE DATE: 9 3 09 01 (YY / MM / DD)

SAMPLE TIME: 10:00 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:
Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13018 — AquaPak™ CONTENT — 05 Day TAT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y — N	FIELD COMMENTS	E.M.L. COMMENTS
AH8120-A	04	G	HCL 4C	VOMSBA0322	Y N	EML OK	
~~AH8120-B~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOMSBA0322~~	Y N	~~EML~~ Cancel	~~TBK~~ ZS 8/21
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 09:30 (2400 HR.)
   Signature: Michelle Mason Seal #: 54075 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9/1/93 Time: 17:05 (2400 HR.)
   Signature: Michelle Mason Seal #: 59182 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 8:52 (2400 HR.)
AquaPak™/Sub. Contr. # 604 Temp °C 2 Seal # 59182 Intact. y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8120

Sample Point: WMW02 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	0840	04	71.5	215.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one) Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	525.65 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	254.~~73~~ (ft) 90 MMM 8/31/93	Depth to water From land surface	(ft)
Groundwater Elevation	270.75 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	325.00 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.	(other parameter)	value	units
1st	7.24 (STD)	1st	578	μm/cm at 25° C	19.8 (° C)			
2nd	(STD)	2nd		μm/cm at 25° C				
3rd	(STD)	3rd		μm/cm at 25° C				
4th	(STD)	4th		μm/cm at 25° C				

FIELD COMMENTS

Sample Appearance: Clear liquid (if applicable) Odor: None Color: Lt Grayish/Clear Turbidity: Slight

Weather Conditions: Wind Speed N/A Direction Ø Precipitation Y/N Outlook Sunny ~70°F

Specific Comments: ~~(325' Total Depth) (254.73' D.T.W.) = 70.27 FT. of WATER x 1.02 = 71.68 gal/casing x 3 = 215 gal/purge.~~ MMM 8/31/93

~~(325' Total Depth) = 254.90' D.T.W.) = 70.1 gal/casing x 1.02 =~~ MMM 8/31/93

(325' Total Depth) - (254.90' D.T.W.) = (70.1 FT. of WATER) x 1.02 = 71.5 gal/casing x 3 = 215 gal/purge

Beckman Meter Used for pH, Temp. ORION Meter for SC's.

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) Michelle Wear (Signature) Employer: RUST E&I

EML FF-2A 4/90

REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54075
By: DS

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WMW03 (Source Code)

SAMPLE DATE: 9 3 0 9 0 1 (YY / MM / DD)

SAMPLE TIME: 17:45 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:

Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13018 AquaPak™ CONTENT 05 Day TAT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y — N	FIELD COMMENTS	E.M.L. COMMENTS
AH8118-A	04	G	HCL 4C	VOMSBA0322	Y N	EML OK	
~~AH8118-B~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOMSBA0322~~	Y N	~~EML~~ Cancel	~~TDK~~ 8/8/21
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 09:30 (2400 HR.)
   Signature: Michelle Mason Seal #: 54075 Intact: yes

   I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

   I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: MMason (Print) Date: 9/1/93 Time: 17:05 (2400 HR.)
   Signature: Michelle Mason Seal #: 59182 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 8:52 (2400 HR.)
AquaPak™/Sub. Contr. # 604 Temp°C 2 Seal # 59182 Intact. Y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8118

Sample Point: WMW03 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
913091	1655	03	72.5	217.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one)

Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	519.05 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	248.44 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.61 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	319.50 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.	
1st	7.27 (STD)	1st	516 μm/cm at 25° C		19.7 (° C)	
2nd	(STD)	2nd	μm/cm at 25° C		(other parameter)	value / units
3rd	(STD)	3rd	μm/cm at 25° C		(other parameter)	value / units
4th	(STD)	4th	μm/cm at 25° C		(other parameter)	value / units

FIELD COMMENTS

Sample Appearance: clear liquid (if applicable) Odor: None Color: clear Turbidity: clear

Weather Conditions: Wind Speed 5-10 mph Direction NE Precipitation Y/N Outlook Sunny ~ 90°

Specific Comments: (319.50' Total Depth) - (248.44' D.T.W.) = (71.06 FT. of WATER) x 2 1.02 = 72.48 gal / casing x 3 = 217 gal / purge

Beckman Meter Used for pH, Temp. ORION Meter for SC's

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) Michelle Mas (Signature) Employer: RUST E&I

EML FF-2A 4/90

REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54075
By: JB

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: W M M 0 4 (Source Code)

SAMPLE DATE: 9 3 0 9 0 1 (YY / MM / DD)

SAMPLE TIME: 1 4 : 2 0 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:

Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13018 AquaPak™ CONTENT 05 Day TAT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y — N	FIELD COMMENTS	E.M.L. COMMENTS
AH8119-A	04	G	HCL 4C	VOMSBA0322	Y N	EML OK	
~~AH8119-B~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOMSBA0322~~	Y N	~~EML~~ Cancel	~~TBK~~ 8/21/93
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 09:30 (2400 HR.)
   Signature: Michelle Mason Seal #: 54075 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9/1/93 Time: 17:05 (2400 HR.)
   Signature: Michelle Mason Seal #: 54182 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 8:52 (2400 HR.)
AquaPak™/Sub Contr. # 604 Temp °C 2 Seal # 54182 Intact: yes
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 5621

Bottle Set: AH8119

Sample Point: WMW04 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930911	1258	0.5	69.1	207.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one) Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	520.45 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	250.26 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.19 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	318.00 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.	(other parameter)	value	units
1st	6.86 (STD)	1st	569	μm/cm at 25° C	21.2 (° C)			
2nd	(STD)	2nd		μm/cm at 25° C				
3rd	(STD)	3rd		μm/cm at 25° C				
4th	(STD)	4th		μm/cm at 25° C				

FIELD COMMENTS

Sample Appearance: clear liquid (if applicable) Odor: None Color: clear Turbidity: clear

Weather Conditions: Wind Speed 0-5 mph Direction NE Precipitation Y(N) Outlook Sunny ~90°F

Specific Comments: 318' Total Depth - 250.26 D.T.W. = (67.74 FT. of WATER) x 1.02 = 69.1 gal/casing x 3 = 207 gal/purge

Beckman Meter used for pH, Temp. ORION Meter for SC's.

Daily Duplicate Reading = 6.87, 572, 21.0

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) Michelle Dear (Signature) Employer: RUST E&I

EML FF-2A 4/90 REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 9 3 0 8 1 2 1 1 (YY / MM / DD)
Seal # 54075
By: 22

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WMW05 (Source Code)

SAMPLE DATE: 93 09 01 (YY / MM / DD)

SAMPLE TIME: 15:45 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:

Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13018 AquaPak™ CONTENT 05 Day TAT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y — N	FIELD COMMENTS	E.M.L. COMMENTS
AH8117-A	04	G	HCL 4C	VOMSBA0322	Y N	EML OK	
AH8117-B	01	G	HCL 4C	VOMSBA0322	Y N	EML OK	TBK
					Y N		
					Y N		
					Y N		
					Y N		TB<6mm
					Y N		9-7-93
					Y N		JRK
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By (print) Michelle Mason Date: 8/31/93 Time: 09:30 (2400 HR.)
Signature: Michelle Mason Seal #: 54075 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9/1/93 Time: 17:05 (2400 HR.)
Signature: Michelle Mason Seal #: 59182 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 8:52 (2400 HR.)
AquaPak™/Sub Contr. # 604 Temp °C 2 REGION Seal # 59182 Intact. Y

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8117

FIELD INFORMATION FORM

Sample Point: MMW05 (Source Code)

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	1720	05	82.7	247.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one) Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	NA	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	519.67 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	249.43 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.24 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	330.00 (ft)	Stickup	(ft)

	ph	spec. cond. (μm/cm at 25° C)	Sample Temp. (° C)
1st	7.12 (STD)	5316	20.1
2nd	(STD)		(other parameter) value units
3rd	(STD)		(other parameter) value units
4th	(STD)		(other parameter) value units

FIELD COMMENTS

Sample Appearance: clear (if applicable) Odor: None Color: clear Turbidity: clear

Weather Conditions: Wind Speed 0-5 mph Direction NE Precipitation Y/N Outlook Sunny ~95°F

Specific Comments: (330' Total Depth) - (249.43 D.T.W.) = 80.57 ft. of water x 1.02 = 82 gal/casing x 3 = 246.5 gal/purge

Beckman Meter used for pH, Temp. ORION Meter for SC.

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) Michelle Illas (Signature) Employer: RUST E&I

EML FF-2A 4/90 REGION

05-470.35

WMI Environmental Monitoring Laboratories, Inc.

Quality Report Transmittal Memorandum

SEP 1993
RECEIVED
Western Region
Environmental
Mgt. Dept.
C.W.M.I.

Date: September 23, 1993

To: Client(s) - see below

From: Kimberly Veugeler

Subject: O.S.C.O. 93-13018

Please find enclosed the current Quality Report for the recently completed event at O.S.C.O..

Please take a moment to review the enclosed report to insure it meets your expectations.

If you have any questions, don't hesitate to call your EML Account Representative at (708)208-3100.

Report Distribution:

Name	Report Type
Marc Yalom*	ALL

* Program Manager

WMI Environmental Monitoring Laboratories, Inc.

Organic Surrogate Quality Summary - 93-13018

Method Id.	Sample Id.	Xref Id.	Date Analyzed	Surrogates	% Rec.
VOMSBAO322	AH8114-A	E19	9/7/93	Dibromofluoromethane	99
				Toluene-d8	99
				4-Bromotoluene	97
VOMSBAO322	AH8114-B	E18	9/3/93	Dibromofluoromethane	96
				Toluene-d8	100
				4-Bromotoluene	99
VOMSBAO322	AH8115-A	JK8	9/8/93	Dibromofluoromethane	104
				Toluene-d8	102
				4-Bromotoluene	102
VOMSBAO322	AH8116-A	EZA	9/8/93	Dibromofluoromethane	101
				Toluene-d8	101
				4-Bromotoluene	98
VOMSBAO322	AH8117-A	JK8	9/8/93	Dibromofluoromethane	101
				Toluene-d8	107
				4-Bromotoluene	99
VOMSBAO322	AH8118-A	E18	9/3/93	Dibromofluoromethane	97
				Toluene-d8	100
				4-Bromotoluene	100

NR - NOT REPORTED
ND - NOT DECTECTED **NA** - NOT APPLICABLE
See the Data Qualifier Report for additional Quality comments

WMI Environmental Monitoring Laboratories, Inc.

Organic Surrogate Quality Summary - 93-13018

Method Id.	Sample Id.	Xref Id.	Date Analyzed	Surrogates	% Rec.
VOMSBAO322	AH8119-A	E18	9/3/93	Dibromofluoromethane	99
				Toluene-d8	102
				4-Bromotoluene	100
VOMSBAO322	AH8120-A	E18	9/3/93	Dibromofluoromethane	100
				Toluene-d8	103
				4-Bromotoluene	89

NR - NOT REPORTED
ND - NOT DECTECTED NA - NOT APPLICABLE
See the Data Qualifier Report for additional Quality comments

WMI Environmental Monitoring Laboratories
Volatiles - Quality Summary - 93-13018

Analyte Name	Xref Id.	Matrix Spike % Rec.	Matrix Spike Dup.	RPD Dup.	Blank Det.	Analyst
1,1,1-Trichloroethane	E18	82	79	3	ND	B. MCCULFOR
1,1,1-Trichloroethane	E19	80	78	1	ND	B. MCCULFOR
1,1,1-Trichloroethane	EZA	88	90	2	ND	B. MCCULFOR
1,1,1-Trichloroethane	JK8	106	102	4	ND	A. LIAO
1,1,2,2-Tetrachloroethane	E18	91	94	3	ND	B. MCCULFOR
1,1,2,2-Tetrachloroethane	E19	89	89	1	ND	B. MCCULFOR
1,1,2,2-Tetrachloroethane	EZA	108	103	5	ND	B. MCCULFOR
1,1,2,2-Tetrachloroethane	JK8	102	106	4	ND	A. LIAO
1,1,2-Trichloroethane	E18	91	89	2	ND	B. MCCULFOR
1,1,2-Trichloroethane	E19	91	89	4	ND	B. MCCULFOR
1,1,2-Trichloroethane	EZA	91	97	6	ND	B. MCCULFOR
1,1,2-Trichloroethane	JK8	94	94	0	ND	A. LIAO
1,1-Dichloroethane	E18	89	87	2	ND	B. MCCULFOR
1,1-Dichloroethane	E19	83	85	2	ND	B. MCCULFOR
1,1-Dichloroethane	EZA	98	99	1	ND	B. MCCULFOR
1,1-Dichloroethane	JK8	118	116	2	ND	A. LIAO
1,1-Dichloroethene	E18	104	98	6	ND	B. MCCULFOR
1,1-Dichloroethene	E19	100	99	1	ND	B. MCCULFOR
1,1-Dichloroethene	EZA	107	108	1	ND	B. MCCULFOR
1,1-Dichloroethene	JK8	114	100	13	ND	A. LIAO
1,2-Dichlorobenzene	E18	96	102	7	ND	B. MCCULFOR
1,2-Dichlorobenzene	E19	96	99	3	ND	B. MCCULFOR
1,2-Dichlorobenzene	EZA	123	123	0	ND	B. MCCULFOR
1,2-Dichlorobenzene	JK8	108	106	2	ND	A. LIAO
1,2-Dichloroethane	E18	84	87	3	ND	B. MCCULFOR
1,2-Dichloroethane	E19	78	81	5	ND	B. MCCULFOR
1,2-Dichloroethane	EZA	88	89	1	ND	B. MCCULFOR
1,2-Dichloroethane	JK8	52	42	0	ND	A. LIAO

NR - Not Reported **NC** - Not able to be Calculated
ND - Not Detected **NA** - Not Applicable
See Data Qualifier Report for additional Quality Comments

Volatiles - Quality Summary - 93-13018

Analyte Name	Xref Id.	Matrix Spike % Rec.	Matrix Spike Dup.	RPD Dup.	Blank Det.	Analyst
1,2-Dichloropropane	E18	94	90	4	ND	B. MCCULFOR
1,2-Dichloropropane	E19	89	89	0	ND	B. MCCULFOR
1,2-Dichloropropane	EZA	94	95	1	ND	B. MCCULFOR
1,2-Dichloropropane	JK8	100	102	2	ND	A. LIAO
1,3-Dichlorobenzene	E18	93	96	3	ND	B. MCCULFOR
1,3-Dichlorobenzene	E19	93	99	6	ND	B. MCCULFOR
1,3-Dichlorobenzene	EZA	119	113	5	ND	B. MCCULFOR
1,3-Dichlorobenzene	JK8	106	106	0	ND	A. LIAO
1,4-Dichlorobenzene	E18	93	98	6	ND	B. MCCULFOR
1,4-Dichlorobenzene	E19	94	94	0	ND	B. MCCULFOR
1,4-Dichlorobenzene	EZA	118	118	0	ND	B. MCCULFOR
1,4-Dichlorobenzene	JK8	106	104	2	ND	A. LIAO
2-Chloroethyl vinyl ether	E18	0	0	0	ND	B. MCCULFOR
2-Chloroethyl vinyl ether	E19	0	0	0	ND	B. MCCULFOR
2-Chloroethyl vinyl ether	EZA	0	0	0	.2	B. MCCULFOR
2-Chloroethyl vinyl ether	JK8	5	0	200	ND	A. LIAO
4-Methyl-2-pentanone	E18	81	82	1	ND	B. MCCULFOR
4-Methyl-2-pentanone	E19	78	80	2	ND	B. MCCULFOR
4-Methyl-2-pentanone	EZA	92	89	2	ND	B. MCCULFOR
4-Methyl-2-pentanone	JK8	90	93	3	ND	A. LIAO
Benzene	E18	95	92	3	ND	B. MCCULFOR
Benzene	E19	94	94	0	ND	B. MCCULFOR
Benzene	EZA	108	107	0	ND	B. MCCULFOR
Benzene	JK8	108	106	2	ND	A. LIAO
Bromodichloromethane	E18	72	69	4	ND	B. MCCULFOR
Bromodichloromethane	E19	72	71	1	ND	B. MCCULFOR
Bromodichloromethane	EZA	76	80	4	ND	B. MCCULFOR
Bromodichloromethane	JK8	90	86	4	ND	A. LIAO

NR - Not Reported **NC** - Not able to be Calculated
ND - Not Detected **NA** - Not Applicable
See Data Qualifier Report for additional Quality Comments

Volatiles - Quality Summary - 93-13018

Analyte Name	Xref Id.	Matrix Spike % Rec.	Matrix Spike Dup.	RPD Dup.	Blank Det.	Analyst
Bromoform	E18	71	72	0	ND	B. MCCULFOR
Bromoform	E19	74	76	3	ND	B. MCCULFOR
Bromoform	EZA	68	72	6	ND	B. MCCULFOR
Bromoform	JK8	98	92	6	ND	A. LIAO
Bromomethane	E18	109	102	7	ND	B. MCCULFOR
Bromomethane	E19	111	102	8	ND	B. MCCULFOR
Bromomethane	EZA	92	97	5	ND	B. MCCULFOR
Bromomethane	JK8	96	116	19	ND	A. LIAO
Carbon tetrachloride	E18	80	81	1	ND	B. MCCULFOR
Carbon tetrachloride	E19	78	78	0	ND	B. MCCULFOR
Carbon tetrachloride	EZA	87	87	0	ND	B. MCCULFOR
Carbon tetrachloride	JK8	112	124	10	ND	A. LIAO
Chlorobenzene	E18	98	94	3	ND	B. MCCULFOR
Chlorobenzene	E19	98	98	0	ND	B. MCCULFOR
Chlorobenzene	EZA	105	105	0	ND	B. MCCULFOR
Chlorobenzene	JK8	108	106	2	ND	A. LIAO
Chloroethane	E18	100	105	5	ND	B. MCCULFOR
Chloroethane	E19	110	99	11	ND	B. MCCULFOR
Chloroethane	EZA	113	129	13	ND	B. MCCULFOR
Chloroethane	JK8	60	70	15	ND	A. LIAO
Chloroform	E18	82	80	3	ND	B. MCCULFOR
Chloroform	E19	79	81	2	ND	B. MCCULFOR
Chloroform	EZA	93	96	4	ND	B. MCCULFOR
Chloroform	JK8	105	102	4	ND	A. LIAO
Chloromethane	E18	134	115	15	ND	B. MCCULFOR
Chloromethane	E19	130	124	5	ND	B. MCCULFOR
Chloromethane	EZA	208	94	7	ND	B. MCCULFOR
Chloromethane	JK8	54	60	10	ND	A. LIAO

NR - Not Reported **NC** - Not able to be Calculated
ND - Not Detected **NA** - Not Applicable
See Data Qualifier Report for additional Quality Comments

Volatiles - Quality Summary - 93-13018

Analyte Name	Xref Id.	Matrix Spike % Rec.	Matrix Spike Dup.	RPD Dup.	Blank Det.	Analyst
cis-1,3-Dichloropropene	E18	78	76	3	ND	B. MCCULFOR
cis-1,3-Dichloropropene	E19	78	77	1	ND	B. MCCULFOR
cis-1,3-Dichloropropene	EZA	80	79	1	ND	B. MCCULFOR
cis-1,3-Dichloropropene	JK8	74	71	4	ND	A. LIAO
Dibromochloromethane	E18	71	69	4	ND	B. MCCULFOR
Dibromochloromethane	E19	69	71	3	ND	B. MCCULFOR
Dibromochloromethane	EZA	70	77	10	ND	B. MCCULFOR
Dibromochloromethane	JK8	88	84	5	ND	A. LIAO
Ethylbenzene	E18	95	94	1	ND	B. MCCULFOR
Ethylbenzene	E19	97	95	2	ND	B. MCCULFOR
Ethylbenzene	EZA	104	106	3	ND	B. MCCULFOR
Ethylbenzene	JK8	100	72	32	ND	A. LIAO
Methylene chloride	E18	83	84	0	ND	B. MCCULFOR
Methylene chloride	E19	88	85	3	ND	B. MCCULFOR
Methylene chloride	EZA	102	101	0	.2	B. MCCULFOR
Methylene chloride	JK8	102	110	8	ND	A. LIAO
Tetrachloroethene	E18	91	88	3	ND	B. MCCULFOR
Tetrachloroethene	E19	91	91	0	ND	B. MCCULFOR
Tetrachloroethene	EZA	102	100	2	ND	B. MCCULFOR
Tetrachloroethene	JK8	116	110	5	ND	A. LIAO
Tetrahydrofuran	E18	92	79	15	ND	B. MCCULFOR
Tetrahydrofuran	E19	85	90	7	ND	B. MCCULFOR
Tetrahydrofuran	EZA	78	89	13	ND	B. MCCULFOR
Tetrahydrofuran	JK8	94	98	4	ND	A. LIAO
Toluene	E18	91	95	4	ND	B. MCCULFOR
Toluene	E19	94	94	0	ND	B. MCCULFOR
Toluene	EZA	105	106	1	ND	B. MCCULFOR
Toluene	JK8	104	74	34	ND	A. LIAO

NR - Not Reported **NC** - Not able to be Calculated
ND - Not Detected **NA** - Not Applicable
See Data Qualifier Report for additional Quality Comments

Volatiles - Quality Summary - 93-13018

Analyte Name	Xref Id.	Matrix Spike % Rec.	Matrix Spike Dup.	RPD Dup.	Blank Det.	Analyst
trans-1,2-Dichloroethene	E18	89	91	2	ND	B. MCCULFOR
trans-1,2-Dichloroethene	E19	92	88	5	ND	B. MCCULFOR
trans-1,2-Dichloroethene	EZA	101	102	1	ND	B. MCCULFOR
trans-1,2-Dichloroethene	JK8	106	100	6	ND	A. LIAO
trans-1,3-Dichloropropene	E18	77	77	1	ND	B. MCCULFOR
trans-1,3-Dichloropropene	E19	61	77	4	ND	B. MCCULFOR
trans-1,3-Dichloropropene	EZA	75	76	1	ND	B. MCCULFOR
trans-1,3-Dichloropropene	JK8	116	107	8	ND	A. LIAO
Trichloroethene	E18	94	92	2	ND	B. MCCULFOR
Trichloroethene	E19	93	92	2	ND	B. MCCULFOR
Trichloroethene	EZA	98	101	4	ND	B. MCCULFOR
Trichloroethene	JK8	102	98	4	ND	A. LIAO
Trichlorofluoromethane	E18	118	117	1	ND	B. MCCULFOR
Trichlorofluoromethane	E19	123	121	2	ND	B. MCCULFOR
Trichlorofluoromethane	EZA	78	79	1	ND	B. MCCULFOR
Trichlorofluoromethane	JK8	136	100	30	ND	A. LIAO
Vinyl chloride	E18	117	113	4	ND	B. MCCULFOR
Vinyl chloride	E19	122	111	10	ND	B. MCCULFOR
Vinyl chloride	EZA	130	135	3	ND	B. MCCULFOR
Vinyl chloride	JK8	98	100	2	ND	A. LIAO

NR - Not Reported **NC** - Not able to be Calculated
ND - Not Detected **NA** - Not Applicable
See Data Qualifier Report for additional Quality Comments

ATTACHMENT 3

ANALYTICAL RESULTS
and
QUALITY REPORT
METHODS 601/602

05-470.35

WMI Environmental Monitoring Laboratories, Inc.

Analytical Report Transmittal Memorandum

SEP 1993
RECEIVED
Western Region
Environmental
Mgt. Dept.
C.W.M.I.

Date: September 27, 1993

To: Client(s) - see below

From: Dave Lundquist

Subject: O.S.C.O. 93-13019

Please find enclosed the current Client Report, Field Information Forms, and Field Chain-of-Custody Records for the recently completed event at O.S.C.O..

The data has been thoroughly reviewed and compared to historical data. We have tried to provide a report that is complete and of known and documented quality. Please take a moment to review the enclosed report to insure it meets your expectations.

If you have any questions, don't hesitate to call Donna Bierschenk at (708)208-3100.

Report Distribution:

Name	Report Type
Marc Yalom*	ALL +Diskette

* *Program Manager*

Enclosed are the analytical results for samples received from your facility. The results in the Client Report are for a single ENS (Event Notification System) number only. The sampling event at your facility may include multiple ENS numbers. A separate Client Report will be generated for each one.

It is the goal of WMI Environmental Monitoring Laboratories, Inc. to provide analytical data in a timely fashion, formatted in a way that our clients will find most useful.

If you have any questions concerning the form or content of this report, please contact the WMI EML Customer Operations Department:

Main Number (708) 208-3100
FAX Number (708) 208-1175

Note: Two designations may appear in the results column of your Client Report: NA or ND.

The designation NA (for "Not Analyzed") is used to identify analytes which were requested in the monitoring program, but for which no suitable testing methodology exists. NA may also indicate a dry well, broken sample bottle, insufficient sample volume, or other condition which precludes analysis for a sample.

The designation ND (for "Not Detected") is used to indicate that the analyte of interest was not found at or above the concentration listed under the EMLRL (EML Reporting Limit) heading.

Unless otherwise indicated, all analytes meet the requirements of holding time as specified in the method.

Deborah C. Hockman, Ph.D.

Deborah C. Hockman, Ph.D.
President
WMI Environmental Monitoring Laboratories, Inc.

DATA QUALIFIER COMMENT CODE DEFINITIONS

AR: Acid surrogate recoveries did not meet the acceptance criteria of the method. Oxidative degradation due to sample matrix is suggested.

BB: Broken bottle.

BL: The method blank concentration associated with this analyte did not meet the acceptance criteria of the method.

CX: The concentration of this compound exceeded the calibration used for this analysis. The concentration reported is estimated.

CU: Co-elution with another compound interferes with the quantitation of this compound. The concentration reported is estimated.

DL: The sample was diluted during analysis. Reporting limits have been adjusted where necessary.

DP: This sample was analyzed in duplicate. The relative percent difference between the two results did not meet the acceptance criteria of the method.

DW: Dry well.

HS: Headspace in sample exceeded laboratory control limit. The reported results of the analysis may be less than the actual value.

IS: The internal standard recoveries associated with this analysis did not meet the acceptance criteria of the method.

IV: The bottle did not contain enough sample to perform the analysis.

MP: 3-methylphenol and 4-methylphenol co-elute under the analytical conditions of the method, and can not be differentiated solely on the basis of their mass spectra. The concentrations reported may be either or both isomers.

MX: This sample was used as a matrix spike. The percent recovery did not meet the acceptance criteria of the method. The analysis of a quality control standard showed the analytical system was in control. The result reported may therfore be affected by matrix interferences.

NN: N-nitrosodiphenylamine can not be distinguished from diphenylamine using gas chromatography. The concentrations reported may be either or both compounds.

NQ: No standard qualifier code is in use for this qualification. See the associated comment.

NS: There was not enough sample to repeat this analysis.

PL: This result may be a product of contamination from phthalate plasticizers, which are a common lab contaminant.

PX: This sample required preservation in the field to a pH of less than 2. The pH was checked before analysis and did not have a pH of less than 2.

PY: This sample required preservation in the field to a pH of 4 to 5. The pH was checked before analysis and did not have a pH of 4 to 5.

PZ: This sample required preservation in the field to a pH of 12 or greater. The pH was checked before analysis and did not have a pH of 12 or greater.

QX: This sample was used as a matrix spike. The percent recovery did not meet the acceptance criteria of the method. The analysis of a quality control standard showed the analytical system was out-of-control. The analytical result for this parameter in the unspiked sample is suspect and may not be reported for regulatory compliance purposes.

SB: The analysis of this sample was performed by an approved subcontract laboratory.

ST: This compound is not stable in acidic water.

SU: The analysis of the surrogate with this sample did not meet the acceptance criteria of the method.

TX: The analysis for this parameter was conducted after the holding time specified in the method.

UN: This compound is not stable under the conditions of the analysis.

*** DATA QUALIFIER REPORT ***

27-SEP-93

Please be aware of the following information associated with the client reports for the ENS number 93-13019.

SAMPLE NO.	METHOD ID	ANALYTE	CODE	DILUTION FACTOR
AH8121-B2	VOGCHAN201	EVERY ANALYTE FOR THIS METHOD	DL	2.5
AH8121-B2	VOGCHAN201	2-CHLOROETHYLVINYL ETHER	ST	
AH8122-B2	VOGCHAN201	2-CHLOROETHYLVINYL ETHER	ST	
AH8123-B3	VOGCHAN201	EVERY ANALYTE FOR THIS METHOD	DL	15
AH8123-B3	VOGCHAN201	2-CHLOROETHYLVINYL ETHER	ST	
AH8124-B2	VOGCHAN201	EVERY ANALYTE FOR THIS METHOD	DL	15
AH8124-B2	VOGCHAN201	2-CHLOROETHYLVINYL ETHER	ST	
AH8125-B2	VOGCHAN201	EVERY ANALYTE FOR THIS METHOD	DL	1.433
AH8125-B2	VOGCHAN201	2-CHLOROETHYLVINYL ETHER	ST	
AH8126-B2	VOGCHAN201	EVERY ANALYTE FOR THIS METHOD	DL NQ	20
SAMPLE FOAMED THEREFORE DILUTION WAS NECESSARY.				
AH8126-B2	VOGCHAN201	2-CHLOROETHYLVINYL ETHER	ST	
AH8127-B2	VOGCHAN201	EVERY ANALYTE FOR THIS METHOD	DL NQ	10
SAMPLE FOAMED THEREFORE DILUTION WAS NECESSARY.				
AH8127-B2	VOGCHAN201	2-CHLOROETHYLVINYL ETHER	ST	

**** END OF REPORT *****

*** SUPPLEMENTAL COMMENT REPORT ***

27-SEP-93

Any additional codes or comments for the samples under the ENS number 93-13019.

SAMPLE NO.	METHOD ID	ANALYTE	CODE	DILUTION FACTOR

**** NO ADDITIONAL COMMENTS FOUND *****

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: 01FB
Sample Type: WELL
Sample Number: AH8122

ENS: 93-13019
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 27-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L		VOGCHAN201
1,1,2,2-TETRACHLOROETHANE	ND	2.	UG/L		VOGCHAN201
1,1,2-TRICHLOROETHANE	ND	1.	UG/L		VOGCHAN201
1,1-DICHLOROETHANE	ND	0.500	UG/L		VOGCHAN201
1,1-DICHLOROETHENE	ND	0.500	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCPAN101
1,2-DICHLOROETHANE	ND	1.	UG/L		VOGCHAN201
1,2-DICHLOROPROPANE	ND	1.	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.00	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
1,4-DICHLOROBENZENE	ND	1.00	UG/L		VOGCHAN201
1,4-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
2-CHLOROETHYLVINYL ETHER	ND	9.	UG/L	ST	VOGCHAN201
BENZENE	ND	0.500	UG/L		VOGCPAN101
BROMODICHLOROMETHANE	ND	1.	UG/L		VOGCHAN201
BROMOFORM	ND	2.	UG/L		VOGCHAN201
BROMOMETHANE	ND	5.	UG/L		VOGCHAN201
CARBON TETRACHLORIDE	ND	0.500	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCPAN101
CHLOROETHANE	ND	1.	UG/L		VOGCHAN201
CHLOROFORM	ND	0.500	UG/L		VOGCHAN201
CHLOROMETHANE	ND	1.	UG/L		VOGCHAN201
CIS-1,3-DICHLOROPROPENE	ND	1.	UG/L		VOGCHAN201
DIBROMOCHLOROMETHANE	ND	1.00	UG/L		VOGCHAN201
DICHLORODIFLUOROMETHANE	ND	5.	UG/L		VOGCHAN201
ETHYLBENZENE	ND	0.500	UG/L		VOGCPAN101
METHYLENE CHLORIDE	ND	2.	UG/L		VOGCHAN201
TETRACHLOROETHENE	ND	0.500	UG/L		VOGCHAN201
TOLUENE	ND	0.500	UG/L		VOGCPAN101
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L		VOGCHAN201
TRANS-1,3-DICHLOROPROPENE	ND	1.	UG/L		VOGCHAN201
TRICHLOROETHENE	ND	0.500	UG/L		VOGCHAN201
TRICHLOROFLUOROMETHANE	2.	2.	UG/L		VOGCHAN201
VINYL CHLORIDE	ND	1.00	UG/L		VOGCHAN201

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: DUP
Sample Type: WELL
Sample Number: AH8123

ENS: 93-13019
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 27-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
1,1,1-TRICHLOROETHANE	68.	6.00	UG/L		VOGCHAN201
1,1,2,2-TETRACHLOROETHANE	ND	6.	UG/L		VOGCHAN201
1,1,2-TRICHLOROETHANE	ND	3.	UG/L		VOGCHAN201
1,1-DICHLOROETHANE	ND	6.00	UG/L		VOGCHAN201
1,1-DICHLOROETHENE	61.	6.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	6.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCPAN101
1,2-DICHLOROETHANE	ND	6.	UG/L		VOGCHAN201
1,2-DICHLOROPROPANE	ND	15.	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	15.0	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
1,4-DICHLOROBENZENE	ND	12.0	UG/L		VOGCHAN201
1,4-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
2-CHLOROETHYLVINYL ETHER	ND	60.	UG/L	ST	VOGCHAN201
BENZENE	ND	0.500	UG/L		VOGCPAN101
BROMODICHLOROMETHANE	ND	6.	UG/L		VOGCHAN201
BROMOFORM	ND	12.	UG/L		VOGCHAN201
BROMOMETHANE	ND	6.	UG/L		VOGCHAN201
CARBON TETRACHLORIDE	ND	6.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	6.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCPAN101
CHLOROETHANE	ND	12.	UG/L		VOGCHAN201
CHLOROFORM	ND	6.00	UG/L		VOGCHAN201
CHLOROMETHANE	ND	6.	UG/L		VOGCHAN201
CIS-1,3-DICHLOROPROPENE	ND	12.	UG/L		VOGCHAN201
DIBROMOCHLOROMETHANE	ND	12.0	UG/L		VOGCHAN201
DICHLORODIFLUOROMETHANE	ND	6.	UG/L		VOGCHAN201
ETHYLBENZENE	ND	0.500	UG/L		VOGCPAN101
METHYLENE CHLORIDE	ND	12.	UG/L		VOGCHAN201
TETRACHLOROETHENE	390.	6.00	UG/L		VOGCHAN201
TOLUENE	ND	0.500	UG/L		VOGCPAN101
TRANS-1,2-DICHLOROETHENE	ND	3.00	UG/L		VOGCHAN201
TRANS-1,3-DICHLOROPROPENE	ND	6.	UG/L		VOGCHAN201
TRICHLOROETHENE	160.	7.50	UG/L		VOGCHAN201
TRICHLOROFLUOROMETHANE	ND	6.	UG/L		VOGCHAN201
VINYL CHLORIDE	ND	12.0	UG/L		VOGCHAN201

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOGCHAN201	Dilution factor 15 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW01
Sample Type: WELL
Sample Number: AH8121

ENS: 93-13019
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 27-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
1,1,1-TRICHLOROETHANE	15.	1.00	UG/L		VOGCHAN201
1,1,2,2-TETRACHLOROETHANE	ND	2.	UG/L		VOGCHAN201
1,1,2-TRICHLOROETHANE	ND	1.	UG/L		VOGCHAN201
1,1-DICHLOROETHANE	ND	1.00	UG/L		VOGCHAN201
1,1-DICHLOROETHENE	16.	1.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCPAN101
1,2-DICHLOROETHANE	ND	1.	UG/L		VOGCHAN201
1,2-DICHLOROPROPANE	ND	3.	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	2.50	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
1,4-DICHLOROBENZENE	ND	2.00	UG/L		VOGCHAN201
1,4-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
2-CHLOROETHYLVINYL ETHER	ND	10.	UG/L	ST	VOGCHAN201
BENZENE	ND	0.500	UG/L		VOGCPAN101
BROMODICHLOROMETHANE	ND	1.	UG/L		VOGCHAN201
BROMOFORM	ND	2.	UG/L		VOGCHAN201
BROMOMETHANE	ND	5.	UG/L		VOGCHAN201
CARBON TETRACHLORIDE	ND	1.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	1.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCPAN101
CHLOROETHANE	ND	2.	UG/L		VOGCHAN201
CHLOROFORM	ND	1.00	UG/L		VOGCHAN201
CHLOROMETHANE	ND	1.	UG/L		VOGCHAN201
CIS-1,3-DICHLOROPROPENE	ND	2.	UG/L		VOGCHAN201
DIBROMOCHLOROMETHANE	ND	2.00	UG/L		VOGCHAN201
DICHLORODIFLUOROMETHANE	ND	5.	UG/L		VOGCHAN201
ETHYLBENZENE	ND	0.500	UG/L		VOGCPAN101
METHYLENE CHLORIDE	ND	2.	UG/L		VOGCHAN201
TETRACHLOROETHENE	69.	1.00	UG/L		VOGCHAN201
TOLUENE	ND	0.500	UG/L		VOGCPAN101
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L		VOGCHAN201
TRANS-1,3-DICHLOROPROPENE	ND	1.	UG/L		VOGCHAN201
TRICHLOROETHENE	46.	1.25	UG/L		VOGCHAN201
TRICHLOROFLUOROMETHANE	ND	2.	UG/L		VOGCHAN201
VINYL CHLORIDE	ND	2.00	UG/L		VOGCHAN201

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOGCHAN201	Dilution factor 2.5 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW02
Sample Type: WELL
Sample Number: AH8124

ENS: 93-13019
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 27-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
1,1,1-TRICHLOROETHANE	84.	6.00	UG/L		VOGCHAN201
1,1,2,2-TETRACHLOROETHANE	ND	6.	UG/L		VOGCHAN201
1,1,2-TRICHLOROETHANE	ND	3.	UG/L		VOGCHAN201
1,1-DICHLOROETHANE	ND	6.00	UG/L		VOGCHAN201
1,1-DICHLOROETHENE	80.	6.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	6.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCPAN101
1,2-DICHLOROETHANE	ND	6.	UG/L		VOGCHAN201
1,2-DICHLOROPROPANE	ND	15.	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	15.0	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
1,4-DICHLOROBENZENE	ND	12.0	UG/L		VOGCHAN201
1,4-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
2-CHLOROETHYLVINYL ETHER	ND	60.	UG/L	ST	VOGCHAN201
BENZENE	ND	0.500	UG/L		VOGCPAN101
BROMODICHLOROMETHANE	ND	6.	UG/L		VOGCHAN201
BROMOFORM	ND	12.	UG/L		VOGCHAN201
BROMOMETHANE	ND	6.	UG/L		VOGCHAN201
CARBON TETRACHLORIDE	ND	6.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	6.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCPAN101
CHLOROETHANE	ND	12.	UG/L		VOGCHAN201
CHLOROFORM	ND	6.00	UG/L		VOGCHAN201
CHLOROMETHANE	ND	6.	UG/L		VOGCHAN201
CIS-1,3-DICHLOROPROPENE	ND	12.	UG/L		VOGCHAN201
DIBROMOCHLOROMETHANE	ND	12.0	UG/L		VOGCHAN201
DICHLORODIFLUOROMETHANE	ND	6.	UG/L		VOGCHAN201
ETHYLBENZENE	ND	0.500	UG/L		VOGCPAN101
METHYLENE CHLORIDE	ND	12.	UG/L		VOGCHAN201
TETRACHLOROETHENE	480.	6.00	UG/L		VOGCHAN201
TOLUENE	ND	0.500	UG/L		VOGCPAN101
TRANS-1,2-DICHLOROETHENE	ND	3.00	UG/L		VOGCHAN201
TRANS-1,3-DICHLOROPROPENE	ND	6.	UG/L		VOGCHAN201
TRICHLOROETHENE	200.	7.50	UG/L		VOGCHAN201
TRICHLOROFLUOROMETHANE	ND	6.	UG/L		VOGCHAN201
VINYL CHLORIDE	ND	12.0	UG/L		VOGCHAN201

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Item	Additional Comment Explanations (NQ/DL)
VOGCHAN201	Dilution factor 15 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW03
Sample Type: WELL
Sample Number: AH8125

ENS: 93-13019
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 27-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
1,1,1-TRICHLOROETHANE	7.	0.573	UG/L		VOGCHAN201
1,1,2,2-TETRACHLOROETHANE	ND	2.	UG/L		VOGCHAN201
1,1,2-TRICHLOROETHANE	ND	1.	UG/L		VOGCHAN201
1,1-DICHLOROETHANE	ND	0.573	UG/L		VOGCHAN201
1,1-DICHLOROETHENE	8.	0.573	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCPAN101
1,2-DICHLOROETHANE	ND	1.	UG/L		VOGCHAN201
1,2-DICHLOROPROPANE	ND	1.	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.43	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
1,4-DICHLOROBENZENE	ND	1.15	UG/L		VOGCHAN201
1,4-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
2-CHLOROETHYLVINYL ETHER	ND	9.	UG/L	ST	VOGCHAN201
BENZENE	ND	0.500	UG/L		VOGCPAN101
BROMODICHLOROMETHANE	ND	1.	UG/L		VOGCHAN201
BROMOFORM	ND	2.	UG/L		VOGCHAN201
BROMOMETHANE	ND	5.	UG/L		VOGCHAN201
CARBON TETRACHLORIDE	ND	0.573	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.573	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCPAN101
CHLOROETHANE	ND	1.	UG/L		VOGCHAN201
CHLOROFORM	ND	0.573	UG/L		VOGCHAN201
CHLOROMETHANE	ND	1.	UG/L		VOGCHAN201
CIS-1,3-DICHLOROPROPENE	ND	1.	UG/L		VOGCHAN201
DIBROMOCHLOROMETHANE	ND	1.15	UG/L		VOGCHAN201
DICHLORODIFLUOROMETHANE	ND	5.	UG/L		VOGCHAN201
ETHYLBENZENE	ND	0.500	UG/L		VOGCPAN101
METHYLENE CHLORIDE	ND	2.	UG/L		VOGCHAN201
TETRACHLOROETHENE	45.	0.573	UG/L		VOGCHAN201
TOLUENE	ND	0.500	UG/L		VOGCPAN101
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L		VOGCHAN201
TRANS-1,3-DICHLOROPROPENE	ND	1.	UG/L		VOGCHAN201
TRICHLOROETHENE	36.	0.717	UG/L		VOGCHAN201
TRICHLOROFLUOROMETHANE	ND	2.	UG/L		VOGCHAN201
VINYL CHLORIDE	ND	1.15	UG/L		VOGCHAN201

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOGCHAN201	Dilution factor 1.433 applied.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW04
Sample Type: WELL
Sample Number: AH8126

ENS: 93-13019
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 27-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
1,1,1-TRICHLOROETHANE	48.	8.00	UG/L		VOGCHAN201
1,1,2,2-TETRACHLOROETHANE	ND	8.	UG/L		VOGCHAN201
1,1,2-TRICHLOROETHANE	ND	4.	UG/L		VOGCHAN201
1,1-DICHLOROETHANE	ND	8.00	UG/L		VOGCHAN201
1,1-DICHLOROETHENE	40.	8.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	8.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCPAN101
1,2-DICHLOROETHANE	24.	8.	UG/L		VOGCHAN201
1,2-DICHLOROPROPANE	ND	20.	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	20.0	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
1,4-DICHLOROBENZENE	ND	16.0	UG/L		VOGCHAN201
1,4-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
2-CHLOROETHYLVINYL ETHER	ND	80.	UG/L	ST	VOGCHAN201
BENZENE	ND	0.500	UG/L		VOGCPAN101
BROMODICHLOROMETHANE	ND	8.	UG/L		VOGCHAN201
BROMOFORM	ND	16.	UG/L		VOGCHAN201
BROMOMETHANE	ND	8.	UG/L		VOGCHAN201
CARBON TETRACHLORIDE	ND	8.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	8.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCPAN101
CHLOROETHANE	ND	16.	UG/L		VOGCHAN201
CHLOROFORM	ND	8.00	UG/L		VOGCHAN201
CHLOROMETHANE	ND	8.	UG/L		VOGCHAN201
CIS-1,3-DICHLOROPROPENE	ND	16.	UG/L		VOGCHAN201
DIBROMOCHLOROMETHANE	ND	16.0	UG/L		VOGCHAN201
DICHLORODIFLUOROMETHANE	ND	8.	UG/L		VOGCHAN201
ETHYLBENZENE	ND	0.500	UG/L		VOGCPAN101
METHYLENE CHLORIDE	ND	16.	UG/L		VOGCHAN201
TETRACHLOROETHENE	310.	8.00	UG/L		VOGCHAN201
TOLUENE	ND	0.500	UG/L		VOGCPAN101
TRANS-1,2-DICHLOROETHENE	ND	4.00	UG/L		VOGCHAN201
TRANS-1,3-DICHLOROPROPENE	ND	8.	UG/L		VOGCHAN201
TRICHLOROETHENE	220.	10.0	UG/L		VOGCHAN201
TRICHLOROFLUOROMETHANE	ND	8.	UG/L		VOGCHAN201
VINYL CHLORIDE	ND	16.0	UG/L		VOGCHAN201

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

Item	Additional Comment Explanations (NQ/DL)
VOGCHAN201	Dilution factor 20 applied. SAMPLE FOAMED THEREFORE DILUTION WAS NECESSARY.

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: MW05
Sample Type: WELL
Sample Number: AH8127

ENS: 93-13019
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 27-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
VOLATILE ORGANICS:					
1,1,1-TRICHLOROETHANE	ND	4.00	UG/L		VOGCHAN201
1,1,2,2-TETRACHLOROETHANE	ND	4.	UG/L		VOGCHAN201
1,1,2-TRICHLOROETHANE	ND	2.	UG/L		VOGCHAN201
1,1-DICHLOROETHANE	ND	4.00	UG/L		VOGCHAN201
1,1-DICHLOROETHENE	17.	4.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	4.00	UG/L		VOGCHAN201
1,2-DICHLOROBENZENE	ND	1.00	UG/L		VOGCPAN101
1,2-DICHLOROETHANE	ND	4.	UG/L		VOGCHAN201
1,2-DICHLOROPROPANE	ND	10.	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	10.0	UG/L		VOGCHAN201
1,3-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
1,4-DICHLOROBENZENE	ND	8.00	UG/L		VOGCHAN201
1,4-DICHLOROBENZENE	ND	1.	UG/L		VOGCPAN101
2-CHLOROETHYLVINYL ETHER	ND	40.	UG/L	ST	VOGCHAN201
BENZENE	ND	0.500	UG/L		VOGCPAN101
BROMODICHLOROMETHANE	ND	4.	UG/L		VOGCHAN201
BROMOFORM	ND	8.	UG/L		VOGCHAN201
BROMOMETHANE	ND	5.	UG/L		VOGCHAN201
CARBON TETRACHLORIDE	ND	4.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	4.00	UG/L		VOGCHAN201
CHLOROBENZENE	ND	0.500	UG/L		VOGCPAN101
CHLOROETHANE	ND	8.	UG/L		VOGCHAN201
CHLOROFORM	ND	4.00	UG/L		VOGCHAN201
CHLOROMETHANE	ND	4.	UG/L		VOGCHAN201
CIS-1,3-DICHLOROPROPENE	ND	8.	UG/L		VOGCHAN201
DIBROMOCHLOROMETHANE	ND	8.00	UG/L		VOGCHAN201
DICHLORODIFLUOROMETHANE	ND	5.	UG/L		VOGCHAN201
ETHYLBENZENE	ND	0.500	UG/L		VOGCPAN101
METHYLENE CHLORIDE	ND	8.	UG/L		VOGCHAN201
TETRACHLOROETHENE	180.	4.00	UG/L		VOGCHAN201
TOLUENE	ND	0.500	UG/L		VOGCPAN101
TRANS-1,2-DICHLOROETHENE	ND	2.00	UG/L		VOGCHAN201
TRANS-1,3-DICHLOROPROPENE	ND	4.	UG/L		VOGCHAN201
TRICHLOROETHENE	43.	5.00	UG/L		VOGCHAN201
TRICHLOROFLUOROMETHANE	ND	4.	UG/L		VOGCHAN201
VINYL CHLORIDE	ND	8.00	UG/L		VOGCHAN201

NA = Not Analyzed **ND = Not Detected** **TBK = Trip Blank**

Item	Additional Comment Explanations (NQ/DL)
VOGCHAN201	Dilution factor 10 applied. SAMPLE FOAMED THEREFORE DILUTION WAS NECESSARY.

Subcontract To: _____

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP 480
AquaPak™ # _____
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54117
By: ZD

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: X Ø 1 F B (Source Code)

SAMPLE DATE: 9 3 Ø 9 Ø 1 (YY / MM / DD)

SAMPLE TIME: 1 3 : 4 Ø (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:
Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify _____

ENS # 93-13019

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y — N	FIELD COMMENTS	E.M.L. COMMENTS
AH8122-A	04	G	HCL 4C	VOGCPAN101	Y N	EML OK	
AH8122-B	04	G	NONE 4C	VOGCHAN201	Y N	EML OK	
~~AH8122-C~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOGCPAN101~~	Y N	~~EML~~	~~TBK~~ CANCEL
~~AH8122-D~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCHAN201~~	Y N	~~EML~~	~~TBK~~ 8-20-93
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 10:00 (2400 HR.)
   Signature: Michelle Mason Seal #: 54117 Intact: yes

   I have received these materials in good condition from the above person.

2. Name: _____ Signature: _____
   Date: / / Time: : (2400 HR.) Remarks: _____

   I have received these materials in good condition from the above person.

3. Name: _____ Signature: _____
   Date: / / Time: : (2400 HR.) Remarks: _____

4. AquaPak™/Sub Contr. # 480 Sealed By: M Mason (Print) Date: 9/1/93 Time: 19:00 (2400 HR.)
   Signature: Michelle Mason Seal #: 59514 Intact: yes

LAB USE ONLY
Opened By: (Signature) _____ Date: 9/3/93 Time: 9:49 (2400 HR.)
AquaPak™/Sub. Contr. # 480 Temp.°C 3 Seal # 59514 Intact: y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8122

Sample Point: X01FB (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 HR Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | | N | (circle one)

Sampling Equipment ..... Dedicated | Y | | N | (circle one)

Purging Device		A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X-_____ PURGING OTHER (SPECIFY)
Sampling Device		B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X-_____ SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material		A-Teflon	C-Polypropylene	E-Polyethylene	X-_____ PURGING OTHER (SPECIFY)
Sampling Material		B-Stainless Steel	D-PVC		X-_____ SAMPLING OTHER (SPECIFY)
Tubing-Purging		A-Teflon	D-Polypropylene	F-Silicon	X-_____ PURGING OTHER (SPECIFY)
Tubing-Sampling		B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X-_____ SAMPLING OTHER (SPECIFY)
		C-Rope X-_____ (SPECIFY)			
Filtering Devices 0.45 μ:		A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	(ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	(ft)	Depth to water From land surface	(ft)
Groundwater Elevation	(ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	(ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.	(° C)
1st	(STD)	1st	μm/cm at 25° C			
2nd	(STD)	2nd	μm/cm at 25° C	(other parameter)	value	units
3rd	(STD)	3rd	μm/cm at 25° C	(other parameter)	value	units
4th	(STD)	4th	μm/cm at 25° C	(other parameter)	value	units

FIELD COMMENTS

Sample Appearance: _____ (if applicable) Odor: _____ Color: _____ Turbidity: _____

Weather Conditions: Wind Speed 0-5 mph Direction NE Precipitation Y/N Outlook Sunny ~90°F

Specific Comments:

Field Blank Collected @ ~~MW4~~ MW04 9/1/93

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) [signature] (Signature) Employer: RUST E&I

EML FF-2A 4/90

REGION

Subcontract To: _____

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP 480
AquaPak™ # _____
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54117
By: ZB

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: W D U P (Source Code)

SAMPLE DATE: 9 3 0 9 0 1 (YY / MM / DD)

SAMPLE TIME: 1 0 : 0 5 (2400 HR.) MATRIX CODE: W

Water . . . . . (W) Soil . . . . . (S) Leachate . . . . . (C) Other . . . . . (X)

Source Codes:

Well . . . . . (W) Dewatering/Pressure Relief . . . . (D) Surface Water Impoundment . . . (I) Leachate System . . (C) Gas Condensate . . . (M) Air . . . . . (A) Pretreatment Facility . . . (P) Influent . . . . . (U) Effluent . . . . . (T) River/Stream/Brook . . (R) Lake or Ocean . . . . . (L) Outfall . . . . . (O) Soil . . . . . (S) Bottom Sediment . . . (B) Noise . . . . . (N) Generation Pt. . . . . (G) Other . . . . . (X) Specify _____

ENS # 93-13019

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y — N	FIELD COMMENTS	E.M.L. COMMENTS
AH8123-A	04	G	HCL 4C	VOGCPAN101	Y (N)	EML OK	
AH8123-B	04	G	NONE 4C	VOGCHAN201	Y (N)	EML OK	
~~AH8123-C~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOGCPAN101~~	~~Y N~~	~~EML~~	~~TBK~~ CANCEL
~~AH8123-D~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCHAN201~~	~~Y N~~	~~EML~~	~~TBK~~ 8-20-9
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 10:00 (2400 HR.)
   Signature: Michelle Mason Seal #: 54117 Intact: yes

I have received these materials in good condition from the above person.

2. Name: _____ Signature: _____
   Date: / / Time: : (2400 HR.) Remarks: _____

I have received these materials in good condition from the above person.

3. Name: _____ Signature: _____
   Date: / / Time: : (2400 HR.) Remarks: _____

4. AquaPak™/Sub Contr. # 604 Sealed By: MMason (Print) Date: 9/1/93 Time: 19:00 (2400 HR.)
   Signature: Michelle Mason Seal #: 59514 Intact: yes

LAB USE ONLY
Opened By: (Signature) _____ Date: 9/3/93 Time: 9:49 (2400 HR.)
AquaPak™/Sub Contr. # 480 Temp.°C 3 Seal # 59514 Intact. y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8123

Sample Point: MWDUP (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	0840	04	71.5	215.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated |Y| |N| (circle one)

Sampling Equipment ..... Dedicated |Y| |N| (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	525.65 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	254.90 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.75 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	325.00 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.
1st	7.24 (STD)	1st	578 μm/cm at 25° C		19.8 (° C)
2nd	(STD)	2nd	μm/cm at 25° C		
3rd	(STD)	3rd	μm/cm at 25° C		
4th	(STD)	4th	μm/cm at 25° C		

(other parameter)	value	units

FIELD COMMENTS

Sample Appearance: clear liquid (if applicable) Odor: None Color: Lt Grayish/Clear Turbidity: Slight

Weather Conditions: Wind Speed N/A Direction Ø Precipitation Y/N Outlook Sunny ~ 70°F

Specific Comments: (325' Total Depth) - (254.90' D.T.W) = 70.1 Ft. of water
1.02 = 71.5 gal/casing x 3 = 215 gal/purge.
Beckman Meter used for pH, Temp & YSI Meter for SC.

Duplicate Sample Collected @ MW02

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) Michelle Allen (Signature) Employer: KUST E&I

REGION

EML FF-2A 4/90

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 480
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54117
By: 28

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WMW01 (Source Code)

SAMPLE DATE: 9 3 0 9 0 1 (YY / MM / DD)

SAMPLE TIME: 1 2 : 0 5 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:
Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13019

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8121-A	04	G	HCL 4C	VOGCPAN101	Y N	EML OK	
AH8121-B	04	G	NONE 4C	VOGCHAN201	Y N	EML OK	
~~AH8121-C~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOGCPAN101~~	~~Y N~~	~~EML~~	~~TBK~~ CANCEL
~~AH8121-D~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCHAN201~~	~~Y N~~	~~EML~~	~~TBK~~ 8-20-9
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 10:00 (2400 HR.)
Signature: Michelle Mason Seal #: 54117 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 480 Sealed By: M Mason (Print) Date: 9/1/93 Time: 19:00 (2400 HR.)
Signature: Michelle Mason Seal #: 59514 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 9:49 (2400 HR.)
AquaPak™/Sub. Contr. # 480 Temp.°C 3 Seal # 59514 Intact. y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8121

Sample Point: WMW01 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	1105	0.4	70.8	212.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one) Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	529.33 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	258.63 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.70 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	328.00 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.	(other parameter)	value	units
1st	7.13 (STD)	1st	542	μm/cm at 25° C	19.9 (° C)			
2nd	(STD)	2nd		μm/cm at 25° C				
3rd	(STD)	3rd		μm/cm at 25° C				
4th	(STD)	4th		μm/cm at 25° C				

FIELD COMMENTS

Sample Appearance: Liquid (If applicable) Odor: None Color: ~~Lt. Orange/BRN~~ Clear MMM 9/1/93 Turbidity: Slight

Weather Conditions: Wind Speed Ø Direction N/A Precipitation Y/N Outlook Overcast w/ 80%

Specific Comments: (328' Total Depth) - (258.63' D.T.W.) = (69.37 FT. of WATER) x 1.02 = 70.8 gal/~~gal~~ mm casing = 212 gal/ purge.

Beckman Meter Used for pH, Temp. ORION Meter for SC.

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) [signature] (Signature) Employer: RVST E&I

EML FF-2A 4/90 REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54075
By:

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: W M W 0 2 (Source Code)

SAMPLE DATE: 9 3 0 9 0 1 (YY / MM / DD)

SAMPLE TIME: 1 0 : 0 0 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:

Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13019

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8124-A	04	G	HCL 4C	VOGCPAN101	Y N	EML OK	
AH8124-B	04	G	NONE 4C	VOGCHAN201	Y N	EML OK	
~~AH8124-C~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOGCPAN101~~	~~Y N~~	~~EML~~	~~TBR~~ CANCEL
~~AH8124-D~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCHAN201~~	~~Y N~~	~~EML~~	~~TBR~~ 8-20-93
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 09:30 (2400 HR.)
   Signature: Michelle Mason Seal #: 54075 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9/1/93 Time: 17:05 (2400 HR.)
   Signature: Michelle Mason Seal #: 59182 Intact: yes

LAB USE ONLY

Opened By: (Signature) Date: 9/3/93 Time: 8:52 (2400 HR.)

AquaPak™/Sub Contr. # 604 Temp.°C 2 Seal # 59182 Intact. y

REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8124

Sample Point: WMW02 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	0840	04	71.5	215.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | | N | (circle one) Sampling Equipment ..... Dedicated | Y | | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	525.65 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	254.73 (ft) 90 MMM 8/31/93	Depth to water From land surface	(ft)
Groundwater Elevation	270.75 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	325.00 (ft)	Stickup	(ft)

	ph		μm/cm at 25° C (spec. cond.)		
1st	7.24 (STD)	1st	578	Sample Temp.	19.8 (° C)
2nd	(STD)	2nd		(other parameter) / value / units	
3rd	(STD)	3rd		(other parameter) / value / units	
4th	(STD)	4th		(other parameter) / value / units	

FIELD COMMENTS

Sample Appearance: Clear liquid (if applicable) Odor: None Color: ~~None~~ Clear MMM Ltgrayish Turbidity: slight

Weather Conditions: Wind Speed N/A Direction Ø Precipitation Y/N Outlook Clear Sunny ~70°

Specific Comments: ~~(325' Total Depth) - (254.73' D.T.W.) = 70.27 FT. of WATER x 1.02 71.68 gal/casing x 3 = 215 gal/purge~~ MMM 8/31/93

(325' Total Depth) - (254.90' D.T.W.) = (70.1 FT. of WATER) x 1.02 = 71.5 gal/casing x 3 = 215 gal/purge

Beckman Meter Used for pH, Temp ORION Meter Used for SC

I certify that sampling procedures were in accordance with applicable EPA, State and WML protocols.

9/1/93 (Date) Michelle Klaas (Signature) Employer: RVSI E&I

EML FF-2A 4/90

REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 930821 (YY / MM / DD)
Seal # 54075
By:

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WMW03 (Source Code)

SAMPLE DATE: 930901 (YY / MM / DD)

SAMPLE TIME: 17:45 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:
Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13019

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8125-A	04	G	HCL 4C	VOGCPAN101	Y (N)	EML OK	
AH8125-B	04	G	NONE 4C	VOGCHAN201	Y (N)	EML OK	
~~AH8125-C~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOGCPAN101~~	~~Y N~~	~~EML~~	~~TBK~~ CANCEL
~~AH8125-D~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCHAN201~~	~~Y N~~	~~EML~~	~~TBK~~ 9-20-9
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8 31 93 Time: 09:30 (2400 HR.)
Signature: Michelle Mason Seal #: 54075 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9 1 93 Time: 17:05 (2400 HR.)
Signature: Michelle Mason Seal #: 59182 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9 3 93 Time: 8:52 (2400 HR.)
AquaPak™/Sub. Contr. # 604 Temp.°C Seal # 59182 Intact. y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 5621

Bottle Set: AH8125

Sample Point: WMW03 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	1655	03	72.5	217.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated (Y) | N | (circle one) Sampling Equipment ..... Dedicated (Y) | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	519.05 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	248.44 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.61 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	319.50 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.
1st	7.27 (STD)	1st	5116 μm/cm at 25° C		19.7 (° C)
2nd	(STD)	2nd	μm/cm at 25° C	(other parameter)	value / units
3rd	(STD)	3rd	μm/cm at 25° C	(other parameter)	value / units
4th	(STD)	4th	μm/cm at 25° C	(other parameter)	value / units

FIELD COMMENTS

Sample Appearance: clear (if applicable) Odor: None Color: clear Turbidity: clear

Weather Conditions: Wind Speed 5-10 mph Direction NE Precipitation Y/(N) Outlook clear sunny 90°

Specific Comments: (319.50 Total Depth) - (248.44 D.T.W.) = 71.06 FT. of water x 1.02 = 72.46 gal / casing x 3 = 217 gal / purge

Beckman Meter Used for pH, Temp. ORION Meter for SCs.

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) [signature] (Signature) Employer: RUST E&I

EML FF-2A 4/90 REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54075
By: ZL

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: MMW04 (Source Code)

SAMPLE DATE: 9 3 0 9 0 1 (YY / MM / DD)

SAMPLE TIME: 14:20 (2400 HR.)

MATRIX CODE: W

Water . . . . . (W) Soil . . . . . (S) Leachate . . . . . (C) Other . . . . . (X)

Source Codes:

Well . . . . . (W) Dewatering/Pressure Relief . . . . (D) Surface Water Impoundment . . . (I) Leachate System . . (C) Gas Condensate . . . (M) Air . . . . . (A) Pretreatment Facility . . . (P) Influent . . . . . (U) Effluent . . . . . (T) River/Stream/Brook . . (R) Lake or Ocean . . . . . (L) Outfall . . . . . (O) Soil . . . . . (S) Bottom Sediment . . . (B) Noise . . . . . (N) Generation Pt. . . . . (G) Other . . . . . (X) Specify

ENS # 93-13019

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8126-A	04	G	HCL 4C	VOGCPAN101	Y N	EML OK	
AH8126-B	04	G	NONE 4C	VOGCHAN201	Y N	EML OK	
~~AH8126-C~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOGCPAN101~~	~~Y N~~	~~EML~~	~~TDR~~ CANCEL
~~AH8126-D~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCHAN201~~	~~Y N~~	~~EML~~	~~TDR~~ 8-20-93
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 09:30 (2400 HR.)
   Signature: Michelle Mason Seal #: 54075 Intact: yes

   I have received these materials in good condition from the above person.

2. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

   I have received these materials in good condition from the above person.

3. Name: Signature:
   Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9/1/93 Time: 17:05 (2400 HR.)
   Signature: Michelle Seal #: 59182 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 8:52 (2400 HR.)
AquaPak™/Sub Contr. # 604 Temp.°C 2 Seal # 59182 Intact. Y
REGION

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8126

Sample Point: WMW04 (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	1258	0.5	69.1	207.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated (Y) | N | (circle one) Sampling Equipment ..... Dedicated (Y) | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	521.45 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	250.26 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	271.19 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	318.00 (ft)	Stickup	(ft)

	ph		spec. cond.		Sample Temp.	(other parameter)	value	units
1st	6.86 (STD)	1st	569	μm/cm at 25° C	21.2 (° C)			
2nd	(STD)	2nd		μm/cm at 25° C				
3rd	(STD)	3rd		μm/cm at 25° C				
4th	(STD)	4th		μm/cm at 25° C				

FIELD COMMENTS

Sample Appearance: clear (if applicable) Odor: None Color: clear Turbidity: clear

Weather Conditions: Wind Speed 0-5 mph Direction ~~NW~~ NE Precipitation Y/N Outlook Sunny ~ 90°F

Specific Comments: (318' Total Depth) - (250.26 D.T.W.) = (67.74 Ft. of water) X 1.02 = 69.1 gal / casing x 3 = 207 gal / purge

Beckman Meter - Used for pH, Temp. ORION Meter Used for SC's.

Daily Duplicate Reading = 6.87, ~~560~~ 572, 21.0

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) [signature] (Signature) Employer: RVSTEEL

EML FF-2A 4/90 REGION

Subcontract To:

WMX Environmental Monitoring Laboratories, Inc.

FIELD CHAIN-OF-CUSTODY RECORD

AquaPak™ PREP
AquaPak™ # 604
Date Sealed 9 3 0 8 2 1 (YY / MM / DD)
Seal # 54075
By:

SITE/FACILITY # 562 SITE NAME: O.S.C.O

Sample Point: WMW05 (Source Code)

SAMPLE DATE: 9 3 0 9 0 1 (YY / MM / DD)

SAMPLE TIME: 15:45 (2400 HR.)

MATRIX CODE: W

Water (W) Soil (S) Leachate (C) Other (X)

Source Codes:
Well (W) Dewatering/Pressure Relief (D) Surface Water Impoundment (I) Leachate System (C) Gas Condensate (M) Air (A) Pretreatment Facility (P) Influent (U) Effluent (T) River/Stream/Brook (R) Lake or Ocean (L) Outfall (O) Soil (S) Bottom Sediment (B) Noise (N) Generation Pt. (G) Other (X) Specify

ENS # 93-13019

AquaPak™ CONTENT

SAMPLE I.D.	# OF BOTTLES	BOTTLE TYPE	PRESERVATIVE TYPE	ANALYTES/LAB GROUPS	FILTER Y—N	FIELD COMMENTS	E.M.L. COMMENTS
AH8127-A	04	G	HCL 4C	VOGCPAN101	Y N	EML OK	
AH8127-B	04	G	NONE 4C	VOGCHAN201	Y N	EML OK	
~~AH8127-C~~	~~01~~	~~G~~	~~HCL 4C~~	~~VOGCPAN101~~	~~Y N~~	~~EML~~	~~TBK~~ CANCEL
~~AH8127-D~~	~~01~~	~~G~~	~~NONE 4C~~	~~VOGCHAN201~~	~~Y N~~	~~EML~~	~~TBK~~ 8-2-09
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		

CHAIN OF CUSTODY CHRONICLE

1. AquaPak™ Opened By: (print) Michelle Mason Date: 8/31/93 Time: 09:30 (2400 HR.)
Signature: Michelle Mason Seal #: 54075 Intact: yes

I have received these materials in good condition from the above person.

2. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

I have received these materials in good condition from the above person.

3. Name: Signature:
Date: / / Time: : (2400 HR.) Remarks:

4. AquaPak™/Sub Contr. # 604 Sealed By: M Mason (Print) Date: 9/1/93 Time: 17:05 (2400 HR.)
Signature: Michelle Mason Seal #: 59182 Intact: yes

LAB USE ONLY
Opened By: (Signature) Date: 9/3/93 Time: 8:52 (2400 HR.)
AquaPak™/Sub Contr. # 604 Temp °C 2 REGION Seal # 59182 Intact. y

EML FF-1A 12/92

WMX Environmental Monitoring Laboratories, Inc.

Site # 562

Bottle Set: AH8127

Sample Point: WMW05T (Source Code)

FIELD INFORMATION FORM

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL. IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
930901	1500	0.5	82.2	247.0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated | Y | N | (circle one) Sampling Equipment ..... Dedicated | Y | N | (circle one)

Purging Device	A	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A/B	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A/C	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	A/B	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	A/D	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:	N/A	A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	519.67 (ft/msl)	Land Surface Elevation	(ft/msl)
Depth to water From top of well casing	249.43 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	270.24 (ft/msl)	Groundwater Elevation	(ft/msl)
Well Depth	330.00 (ft)	Stickup	(ft)

	ph	spec. cond. (μm/cm at 25° C)	Sample Temp. (° C)
1st	7.2 (STD)	536	20.1
2nd	(STD)		
3rd	(STD)		
4th	(STD)		

(other parameter)	value	units

FIELD COMMENTS

Sample Appearance: clear (if applicable) Odor: None Color: clear Turbidity: clear

Weather Conditions: Wind Speed 0-5 mph Direction NE Precipitation Y/N? Outlook Sunny ~95°

Specific Comments: (330' Total Depth) - (249.43 D.T.W.) = 80.57 FT of water x 1.02 = 82.2 gal x 3 = 246.5 gal/purge

Beckman Meter Used for pH, Temp. ORION Meter Used for SC

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

9/1/93 (Date) Michelle Wos (Signature) Employer: RUST E&I

EML FF-2A 4/90 REGION

05-470.35

WMI Environmental Monitoring Laboratories, Inc.

Quality Report Transmittal Memorandum

OCT 1993
RECEIVED
Western Region
Environmental
Mgt. Dept.
C.W.M.I.

Date: October 2, 1993

To: Client(s) - see below

From: Kimberly Veugeler

Subject: O.S.C.O. 93-13019

Please find enclosed the current Quality Report for the recently completed event at O.S.C.O..

Please take a moment to review the enclosed report to insure it meets your expectations.

If you have any questions, don't hesitate to call your EML Account Representative at (708)208-3100.

Report Distribution:

Name	Report Type
Marc Yalom*	ALL +Diskette

* Program Manager

WMI Environmental Monitoring Laboratories, Inc.

Organic Surrogate Quality Summary - 93-13019

Method Id.	Sample Id.	Xref Id.	Date Analyzed	Surrogates	% Rec.
VOGCHAN201	AH8121-B	KEV	9/14/93	1,4-Dichlorobutane	75
				NA	NA
				NA	NA
VOGCHAN201	AH8122-B	KEV	9/14/93	1,4-Dichlorobutane	77
				NA	NA
				NA	NA
VOGCHAN201	AH8123-B	KEV	9/15/93	1,4-Dichlorobutane	77
				NA	NA
				NA	NA
VOGCHAN201	AH8124-B	KEV	9/14/93	1,4-Dichlorobutane	76
				NA	NA
				NA	NA
VOGCHAN201	AH8125-B	KEV	9/14/93	1,4-Dichlorobutane	73
				NA	NA
				NA	NA
VOGCHAN201	AH8126-B	KEV	9/14/93	1,4-Dichlorobutane	87
				NA	NA
				NA	NA

NR - NOT REPORTED
ND - NOT DECTECTED **NA** - NOT APPLICABLE
See the Data Qualifier Report for additional Quality comments

WMI Environmental Monitoring Laboratories, Inc.

Organic Surrogate Quality Summary - 93-13019

Method Id.	Sample Id.	Xref Id.	Date Analyzed	Surrogates	% Rec.
VOGCHAN201	AH8127-B	KEV	9/14/93	1,4-Dichlorobutane	79
				NA	NA
				NA	NA
VOGCPAN101	AH8121-A	MFQ	9/14/93	NA	NA
				NA	NA
				NA	NA
VOGCPAN101	AH8122-A	MFQ	9/14/93	NA	NA
				NA	NA
				NA	NA
VOGCPAN101	AH8123-A	MFQ	9/13/93	NA	NA
				NA	NA
				NA	NA
VOGCPAN101	AH8124-A	MFQ	9/14/93	NA	NA
				NA	NA
				NA	NA
VOGCPAN101	AH8125-A	MFQ	9/14/93	NA	NA
				NA	NA
				NA	NA

NR - NOT REPORTED
ND - NOT DECTECTED **NA** - NOT APPLICABLE
See the Data Qualifier Report for additional Quality comments

WMI Environmental Monitoring Laboratories, Inc.

Organic Surrogate Quality Summary - 93-13019

Method Id.	Sample Id.	Xref Id.	Date Analyzed	Surrogates	% Rec.
VOGCPAN101	AH8126-A	MFQ	9/14/93	NA	NA
				NA	NA
				NA	NA
VOGCPAN101	AH8127-A	MFQ	9/14/93	NA	NA
				NA	NA
				NA	NA

NR - NOT REPORTED
ND - NOT DECTECTED NA - NOT APPLICABLE
See the Data Qualifier Report for additional Quality comments

WMI Environmental Monitoring Laboratories
Volatiles - Quality Summary - 93-13019

Analyte Name	Xref Id.	Matrix Spike % Rec.	Matrix Spike Dup.	RPD Dup.	Blank Det.	Analyst
1,1,1-Trichloroethane	KEV	85	NR	NR	ND	M. LUNDQUIST
1,1,2,2-Tetrachloroethane	KEV	76	NR	NR	ND	M. LUNDQUIST
1,1,2-Trichloroethane	KEV	79	NR	NR	ND	M. LUNDQUIST
1,1-Dichloroethane	KEV	83	NR	NR	ND	M. LUNDQUIST
1,1-Dichloroethene	KEV	86	NR	NR	ND	M. LUNDQUIST
1,2-Dichlorobenzene	KEV	76	NR	NR	.1	M. LUNDQUIST
1,2-Dichlorobenzene	MFQ	78	NR	NR	.03	M. LUNDQUIST
1,2-Dichloroethane	KEV	81	NR	NR	ND	M. LUNDQUIST
1,2-Dichloropropane	KEV	79	NR	NR	ND	M. LUNDQUIST
1,3-Dichlorobenzene	KEV	84	NR	NR	.05	M. LUNDQUIST
1,3-Dichlorobenzene	MFQ	79	NR	NR	.03	M. LUNDQUIST
1,4-Dichlorobenzene	KEV	90	NR	NR	.1	M. LUNDQUIST
1,4-Dichlorobenzene	MFQ	79	NR	NR	.03	M. LUNDQUIST
2-Chloroethyl vinyl ether	KEV	49	NR	NR	ND	M. LUNDQUIST
Benzene	MFQ	88	NR	NR	.03	M. LUNDQUIST
Bromodichloromethane	KEV	75	NR	NR	ND	M. LUNDQUIST
Bromoform	KEV	62	NR	NR	ND	M. LUNDQUIST
Bromomethane	KEV	74	NR	NR	ND	M. LUNDQUIST
Carbon tetrachloride	KEV	86	NR	NR	ND	M. LUNDQUIST
Chlorobenzene	MFQ	81	NR	NR	.01	M. LUNDQUIST
Chloroethane	KEV	82	NR	NR	ND	M. LUNDQUIST
Chloroform	KEV	89	NR	NR	ND	M. LUNDQUIST
Chloromethane	KEV	79	NR	NR	ND	M. LUNDQUIST
cis-1,3-Dichloropropene	KEV	79	NR	NR	ND	M. LUNDQUIST
Dibromochloromethane	KEV	78	NR	NR	ND	M. LUNDQUIST
Ethylbenzene	MFQ	80	NR	NR	.02	M. LUNDQUIST
Methylene chloride	KEV	85	NR	NR	.2	M. LUNDQUIST
Tetrachloroethene	KEV	85	NR	NR	ND	M. LUNDQUIST

NR - Not Reported **NC** - Not able to be Calculated
ND - Not Detected **NA** - Not Applicable
See Data Qualifier Report for additional Quality Comments

Volatiles - Quality Summary - 93-13019

Analyte Name	Xref Id.	Matrix Spike % Rec.	Matrix Spike Dup.	RPD Dup.	Blank Det.	Analyst
Toluene	MFQ	82	NR	NR	.02	M. LUNDQUIST
trans-1,2-Dichloroethene	KEV	86	NR	NR	ND	M. LUNDQUIST
trans-1,3-Dichloropropene	KEV	77	NR	NR	.07	M. LUNDQUIST
Trichloroethene	KEV	84	NR	NR	.1	M. LUNDQUIST
Trichlorofluoromethane	KEV	98	NR	NR	ND	M. LUNDQUIST
Vinyl chloride	KEV	83	NR	NR	ND	M. LUNDQUIST

NR - Not Reported NC - Not able to be Calculated
ND - Not Detected NA - Not Applicable
See Data Qualifier Report for additional Quality Comments

ATTACHMENT 4

ANALYTICAL RESULTS
SECOND FIELD BLANK VIAL
METHOD 624

WMI Environmental Monitoring Laboratories, Inc.

Analytical Report Transmittal Memorandum

SEP 1993
RECEIVED
Western Region
Environmental
Mgt. Dept.
C.W.M.I.

Date: September 10, 1993

To: Client(s) - see below

From: Dave Lundquist

Subject: O.S.C.O. 93-13018

Please find enclosed the **regenerated** Client Report for the event at O.S.C.O..

We have tried to provide a report that is complete and of known and documented quality. Please take a moment to review the enclosed report to insure it meets your expectations.

If you have any questions, don't hesitate to call Donna Bierschenk at (708)208-3100.

Report Distribution:

Name	Report Type
Marc Yalom*	ALL

* *Program Manager*

*** DATA QUALIFIER REPORT ***

10-SEP-93

Please be aware of the following information associated with the client reports for the ENS number 93-13018.

SAMPLE NO.	METHOD ID	ANALYTE	CODE	DILUTION FACTOR
AH8114-A2	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	2.5
AH8114-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8114-B0	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8115-A4	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	12.5
AH8115-A4	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8116-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8116-A5	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8117-A3	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	3.33
AH8117-A3	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8118-A2	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	2
AH8118-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8119-A4	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	12.5
AH8119-A4	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	
AH8120-A2	VOMSBA0322	EVERY ANALYTE FOR THIS METHOD	DL	14.29
AH8120-A2	VOMSBA0322	2-CHLOROETHYLVINYL ETHER	ST	

**** END OF REPORT *****

*** SUPPLEMENTAL COMMENT REPORT ***

10-SEP-93

Any additional codes or comments for the samples under the ENS number 93-13018.

SAMPLE NO.	METHOD ID	ANALYTE	CODE	DILUTION FACTOR

**** NO ADDITIONAL COMMENTS FOUND *****

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

CLIENT REPORT

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: 01FB
Sample Type: WELL
Sample Number: AH8116

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 10-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
FIELD DATA:					
DEPTH TO WATER FROM TOP OF CASING	NA		FT		FDWDTWTC01
GROUNDWATER ELEV.	NA		FT MSL		FDWGWELWDT
PH FIELD	NA		PH UNITS		FDPHSING01
SPECIFIC CONDUCTANCE FIELD	NA		UMHOS/CM		FDSPCOND01
WATER TEMPERATURE IN DEGREES CELSIUS	NA		DEGREES C		FDXTEMPC01
WELL DEPTH TOTAL	NA		FT		FDWGWELWDT
VOLATILE ORGANICS:					
(M and P)-XYLENE	ND	10.	UG/L		VOMSBA0322
(M and P)-XYLENE	ND	10.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	6.	5.	UG/L		VOMSBA0322
1,1,1-TRICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1,2,2-TETRACHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1,2-TRICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	6.	5.	UG/L		VOMSBA0322
1,1-DICHLOROETHENE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,2-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROETHANE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	5.	UG/L		VOMSBA0322
1,2-DICHLOROPROPANE	ND	5.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,3-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
1,4-DICHLOROBENZENE	ND	10.	UG/L		VOMSBA0322
2-BUTANONE	ND	10.	UG/L		VOMSBA0322
2-BUTANONE	ND	10.	UG/L		VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	20.	UG/L	ST	VOMSBA0322
2-CHLOROETHYLVINYL ETHER	ND	20.	UG/L	ST	VOMSBA0322
4-METHYL-2-PENTANONE	ND	10.	UG/L		VOMSBA0322
4-METHYL-2-PENTANONE	ND	10.	UG/L		VOMSBA0322
ACETONE	ND	34.	UG/L		VOMSBA0322
ACETONE	ND	34.	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BENZENE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
BROMODICHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
BROMOFORM	ND	5.	UG/L		VOMSBA0322
BROMOFORM	ND	5.	UG/L		VOMSBA0322
BROMOMETHANE	ND	10.	UG/L		VOMSBA0322
BROMOMETHANE	ND	10.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CARBON TETRACHLORIDE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	5.	UG/L		VOMSBA0322
CHLOROBENZENE	ND	5.	UG/L		VOMSBA0322
CHLOROETHANE	ND	10.	UG/L		VOMSBA0322
CHLOROETHANE	ND	10.	UG/L		VOMSBA0322
CHLOROFORM	ND	5.	UG/L		VOMSBA0322
CHLOROFORM	ND	5.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	10.	UG/L		VOMSBA0322
CHLOROMETHANE	ND	10.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
CIS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
DIBROMOCHLOROMETHANE	ND	5.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	5.	UG/L		VOMSBA0322
ETHYLBENZENE	ND	5.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	5.	UG/L		VOMSBA0322
METHYLENE CHLORIDE	ND	5.	UG/L		VOMSBA0322
O-XYLENE	ND	10.	UG/L		VOMSBA0322
O-XYLENE	ND	10.	UG/L		VOMSBA0322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

WMX ENVIRONMENTAL MONITORING LABORATORIES, INC

C L I E N T R E P O R T

Site: 562 - O.S.C.O
Treatment Facility
107 S. Motor Ave.
Azusa CA 91702

Sample Point: 01FB
Sample Type: WELL
Sample Number: AH8116

ENS: 93-13018
MP: 562931
REV: 05

Sampled: 1-SEP-1993
Received: 3-SEP-1993
Reported: 10-SEP-1993

Analyte	Result	P Q L	Units	Comments	Method
TETRACHLOROETHENE	41.	5.	UG/L		VOMSBAO322
TETRACHLOROETHENE	ND	5.	UG/L		VOMSBAO322
TOLUENE	ND	5.	UG/L		VOMSBAO322
TOLUENE	ND	5.	UG/L		VOMSBAO322
TRANS-1,2-DICHLOROETHENE	ND	10.	UG/L		VOMSBAO322
TRANS-1,2-DICHLOROETHENE	ND	10.	UG/L		VOMSBAO322
TRANS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBAO322
TRANS-1,3-DICHLOROPROPENE	ND	5.	UG/L		VOMSBAO322
TRICHLOROETHENE	33.	5.	UG/L		VOMSBAO322
TRICHLOROETHENE	ND	5.	UG/L		VOMSBAO322
TRICHLOROFLUOROMETHANE	ND	10.	UG/L		VOMSBAO322
TRICHLOROFLUOROMETHANE	ND	10.	UG/L		VOMSBAO322
VINYL CHLORIDE	ND	10.	UG/L		VOMSBAO322
VINYL CHLORIDE	ND	10.	UG/L		VOMSBAO322

NA = Not Analyzed ND = Not Detected TBK = Trip Blank

ATTACHMENT 5
GROUNDWATER DATA DISKETTE