WATER RECLAMATION
SOLID WASTE MANAGEMENT

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

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JAMES F. STAHL
Chief Engineer and General Manager

FEB 28 2005
File No: 20-04.01-55

Mr. Harold J. Singer, Executive Officer
California Regional Water Quality Control Board
Lahontan Region - Victorville Branch
15428 Civic Drive, Suite 100
Victorville, CA 92392-2359

Dear Mr. Singer:

Palmdale Water Reclamation Plant
WDID No. 6B190107069
WQCB Order No. 6-00-57, 6-00-57A01 and 6-00-57A02
Revised Monitoring and Reporting Program No. 6-00-57-A01, 6-00-57-A02 and 6-00-57-A03
Cleanup and Abatement Order No. R6V-2003-056
Annual Monitoring Report 2004

Enclosed please find the 2004 Annual Monitoring Report for the Palmdale Water Reclamation Plant. This report provides a concise summary of monitoring data and events which occurred during 2004.

Very truly yours,

James F. Stahl

Raymond Tremblay
Supervising Engineer,
Monitoring Section

RT:LJ:drs
Enclosure

PALMDALE WATER RECLAMATION PLANT

ANNUAL MONITORING REPORT

2004

RWQCB ORDER NO. 6-00-57, 6-00-57A01, & 6-00-57A02

MONITORING & REPORTING PROGRAM NO. 6-00-57-A01, 6-00-57-A02 & 6-00-57-A03

SANITATION DISTRICTS OF LOS ANGELES COUNTY

PALMDALE WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2004

RWQCB ORDER NO. 6-00-57, 6-00-57A01 & 6-00-57A02
MONITORING AND REPORTING PROGRAM
NO. 6-00-57-A01, 6-00-57-A02 & 6-00-57-A03

County Sanitation Districts
of Los Angeles County

Copies of this report have been sent to:

USEPA
Region IX
75 Hawthorne Street
San Francisco, CA 94105

California State Department of Health Services
Attn: Ms. Kurt Souza, District Engineer
Drinking Water Field Operations Branch
1449 West Temple Street, Suite 202
Los Angeles, CA 90026

County of Los Angeles Department of Health Services
Attn: Mr. Richard Wagener, Acting Bureau Director of Environmental Protection
2525 Corporate Place, Room 150
Monterey Park, CA 91754

L.A. County Dept. of Public Works
Attn: Mr. Rod Kubomoto
Waste Management Division, 7th Floor
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Harrington Farms
Mr. Lee Harrington
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Antelope Valley Farming, LCC
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CHAPTER 1

PERMIT COMPLIANCE AND RECLAIMED WATER USE REPORT

CHAPTER 1

PERMIT COMPLIANCE AND RECLAIMED WATER USE REPORT

1.1 INTRODUCTION

This report contains the annual report for the Palmdale Water Reclamation Plant (WRP) for the year 2004.

1.2 PERMIT REQUIREMENTS

The Waste Discharge and Monitoring and Reporting Requirements for the Palmdale WRP are contained in the following documents:

1. Board Order No. 6-00-57 (Revised Waste Discharge Requirements), adopted June 14, 2000, Board Order No. 6-00-57-A01 (Amended Waste Discharge Requirements), adopted April 14, 2004, and Board Order No. 6-00-57-A02 (Amended Waste Discharge Requirements), adopted July 26, 2004, by the California Regional Water Quality Control Board - Lahontan Region (WQCB).

2. Revised Monitoring and Reporting Program No. 6-00-57-A01, adopted February 26, 2004, Amended Monitoring and Reporting Program No. 6-00-57-A02, adopted April 14, 2004, and Amended Monitoring and Reporting Program (MRP) No. 00-57-A03, adopted October 13, 2004 by the WQCB

3. Cleanup and Abatement Order No. R6V-2003-056 (CAO), issued on November 12, 2003.

4. Cease and Desist Order No. R6V-2004-0039 (CDO), issued on October 13, 2004.

1.3 WDR COMPLIANCE

Effluent BOD_5

On November 14, 2004 the soluble BOD_5 in the effluent exceeded the maximum daily limit of 45 mg/L with a value of 63 mg/L. The most probable cause of the BOD_5 exceedance was the presence of nitrifying bacteria in the samples. As a result of significant populations of nitrifying bacteria in the secondary effluent, higher BOD_5 values are measured due to the production of nitrogenous BOD_5 (from the oxidation of ammonia to nitrate). The 30-day average limit for BOD_5 for November was 25 mg/L, which is in compliance with the 30-day average limit for BOD_5 of 30 mg/L.

Agronomic Rates

Due to extremely heavy rainfall and the potential for reclaimed water runoff from the site (additional application of effluent to the land application and land application with a crop fields would have likely resulted in runoff leaving the site due to saturated soil conditions), the District was forced to apply effluent above agronomic rates on Pivots 1 and 2, in addition to the land application areas (with and without a crop) during the month of December. This resulted in non-compliance with Board Order No. 6-00-57-A01, which states that recycled water should be

applied at agronomic rates at the Palmdale effluent management site. This information was reported in the 4th Quarter Monitoring Report submitted on January 31, 2005, in compliance with the MRP. This information was not reported in the monthly monitoring report for December since the data was not available at the time of submittal.

1.4 MONITORING AND REPORTING

Recycled Water Treatment and Use Report

In accordance with Amended Monitoring and Reporting Program No. 00-57-A03, adopted in October 2004, a Recycled Water Treatment and Use Report for the Palmdale WRP is submitted on a monthly basis. A copy of this report is included in Appendix A.

Groundwater Monitoring

This report contains annual data for wells SW1, SW2, SW5, SW7, SW8, SW9, SW10, SW13, SWH2, MW2, MW4, MW15, MW16, MW18, MW20-29. Monitoring wells MW31, MW32, MW33, MW35, MW37, MW38, MW39, MW46, and MW51 were constructed between May and October 2004. Annual data was not obtained for these wells, due to scheduling issues associated with startup, but will be obtained in 2005. Quarterly data was obtained, and was presented in the quarterly reports, and is included herein as well.

Estimated groundwater flow direction at the sampled wells is shown in Figure 4-1.

2004 Title 22 MCL Exceedances

The following tables summarize groundwater quality data exceeding the primary or secondary Maximum Contaminant Levels (MCLs) of Title 22 of California Code of Regulations. Primary MCLs are based on human health, whereas secondary MCLs are based on aesthetic concerns.

Elevated Nitrate Levels at SW10, MW4, and MW20

Wells SW10, MW4, and MW20 had elevated concentrations of nitrate at various times through out the year, as shown in the table below:

	Nitrate (mg/L)		
Date	**SW 10**	**MW4**	**MW20**
March 4, 2004		10.7	13.5
March 11, 2004	13.3		
April 8, 2004	13.1		
June 24, 2004			11.6
September 7, 2004	12.9		
September 23, 2004		11.2	
December 1, 2004			14.2

These levels exceed the primary drinking water MCL of 10 mg/L.

Elevated Levels of Metals at SW7, SW10, MW2, MW15, MW16 and MW22

Wells SW7, SW10, MW2, MW15, MW16 and MW22 had elevated concentrations of iron or aluminum during 2004, which exceeded the secondary drinking water MCLs for these

constituents. The following table summarizes the levels of the constituents of concern at these wells.

	SW7	SW10	MW2	MW15	MW16	MW22	MCL (mg/l)
Iron (mg/l)	0.669	0.316	1.55	0.401	0.65	0.496	0.3
Aluminum (mg/l)			1.99				1

Lysimeter Data and Vadose Zone Monitoring Report

Lysimeters L1, L3, L4, L6, and L16 were sampled during 2004. On many occasions, complete analysis of lysimeter samples was not possible due to insufficient moisture, or no moisture, in the sample. The District attempted to sample the lysimeters several times during the year. An effort was made to obtain at least one result for each parameter included in the MRP.

The District submitted a draft Vadose Zone Monitoring Plan (VZMP) on March 31, 2004. The WQCB responded with comments in a letter dated June 24, 2004. The District addressed the WQCB's concerns in a letter dated July 22, 2004, and submitted an amended VZMP to the WQCB on August 20, 2004. A contract for installation of new lysimeters for the amended VZMP was awarded in late January 2005. In 2005, the District will install new lysimeters per the approved VZMP.

Monitoring and Reporting Deviations

Beginning April 1, 2004, Revised MRP No. 6-00-57-A01 became effective, which changed the sampling frequency for several constituents for the effluent and groundwater sampling. For example, the heavy metals sampling frequency was increased to quarterly from annually and several groundwater monitoring constituents were increased to quarterly from semiannually. Therefore, only the last three quarters of 2004 are reflective of the new requirements in Revised MRP No. 6-00-57-A01.

In an effort to better characterize the water quality in the influent and effluent at the Palmdale WRP, the District sampled more frequently than required in the MRP at these locations for a variety of parameters. These parameters were still reported based on their MRP sampling frequency. For example, monthly MRP requirements, sampled now on a more frequent basis, were reported in the "Monthly Parameters" table. This data is included in this report.

For groundwater sampling the MRP states that, "The depth to ground water in each well and the field parameters of pH, electrical conductivity, temperature, and dissolved oxygen shall be measured and recorded each time a well is sampled." The District does not have control over the operation of the supply wells therefore the District can only sample the supply wells when in operation by other parties. As a result, the depth of the supply wells cannot be obtained because depth can only be measured when the wells are not in operation. Other field parameters cannot be obtained at the supply wells because the sampling apparatus for the field parameters is not compatible with the various wellheads. The District will continue to investigate obtaining the appropriate fittings and/or modifying the wellheads in an effort to connect the sampling apparatus to the wellhead.

1st Quarter

Supply wells SW E and SW14 were not sampled during this quarter. SW14 is no longer in operation and SW E was not sampled due to access issues. The Districts will continue to attempt to obtain access to sample SW E for future sampling event. Monitoring wells MW1, MW17, and

MW19 were not sampled during this quarter due to pump malfunctions. The pumps for MW1 and MW19 were determined to be inoperable and MW17 is scheduled for maintenance and troubleshooting.

2nd Quarter

Supply wells SW E and SW14 were not sampled during this quarter. As stated earlier, SW14 is no longer in operation and SW E was not sampled due to access issues. Several constituents were not completed for SW H2 and were reported in future reports. Monitoring wells MW1, MW17, and MW19 were not sampled during this quarter due to pump malfunctions and possible dry conditions at MW 17.

The constituents MBAS and Total Organic Carbon (TOC) were inadvertently not analyzed at many of the supply and monitoring wells during the 2nd quarter 2004. This error occurred during implementation of the new MRP requirements. Many of the wells were re-sampled within the 2nd quarter and the remainder of the wells were re-sampled during the next quarter. Results were presented in quarterly reports as well as in this report.

New monitoring wells MW38 and MW39 were installed and preliminary sampling with contract equipment was conducted in the 2nd quarter. Sampling equipment was purchased by the District and these wells were added to the routine sampling schedule.

3rd Quarter

Supply wells SWE, SW1, SW9, SW13, and SW14 were not sampled during the third quarter. As stated earlier, SW14 is no longer in operation and SW E was not sampled due to it being inaccessible. SW 1, SW9 and SW13 were not in operation during the quarter. Two constituents (sulfate and chloride) were not completed in the 2nd quarter for SW H2. These constituents were included in the sampling done in the 3rd quarter, and the results were included in the quarterly reports and are included in this report. Monitoring wells MW1, MW17, and MW19 were not sampled during the third quarter due to pump malfunctions. The WQCB approved the use of low-flow purging and sampling procedures for groundwater monitoring in a letter dated August 6, 2004. These wells were fitted with pumps that were compatible with the new procedures and were added to the routine sampling schedule.

Eleven monitoring wells were equipped with transducers by Geomatrix to provide long term depth to groundwater data for compliance with the CAO. Depth to groundwater cannot be obtained by District personnel at these wells as long as the transducers are in place.

4th Quarter

Supply wells SWE, SW1, SW7, SW9, SW10, SW13, and SW14 were not sampled during the fourth quarter. As stated earlier, SW14 is no longer in operation and SW E was not sampled due to it being inaccessible. SW 1, SW7, SW9, SW10, and SW13 were not in operation during the quarter.

During the fourth quarter, new bladder pumps were installed on all monitoring wells, and low-flow purging and sampling procedures were implemented, as approved by the WQCB in a letter dated August 6, 2004. Monitoring wells MW31, 32, 33, 35, 37, and 46 were developed during the quarter and initial sampling was completed on all wells except MW31, which had insufficient yield. Monitoring wells MW1, MW17, MW19, MW25 and MW39 were not sampled during the

fourth quarter. MW1, MW25, and MW39 were unable to be sampled due to technical problems with the new bladder pumps, which are being investigated. MW17 was determined to be dry. Three attempts were made to sample MW19; on the first, farm equipment blocked access, on the second the well was buried in sand, and on the third, storm related mud blocked access.

Due to problems with the effluent pump station meter, the effluent flow data for December was calculated using the total of all meters instead of the pump station meter. Repairs were completed to the effluent pump station meter.

Corrections to 2004 Monthly Reports

May 2004
The influent ammonia and kjeldahl nitrogen (TKN) results for May 31, 2004, were inadvertently not included in the May monthly report. These results have been incorporated into this report.

June 2004
The influent TKN results for sample SJ09116 and SJ09446 were reported incorrectly and should have been reported as 39.9 mg/L and 47.6 mg/L, respectively. These values have been incorporated into this report.

September 2004
The effluent quarterly data for sample SJ12671 was reported incorrectly for several constituents and has since been revised and incorporated into this report (see Table 3.10).

1.5 BIOSOLIDS MANAGEMENT

During 2004, approximately 310 dry tons of biosolids were generated. Approximately 208 dry tons of biosolids were stockpiled during 2004. Approximately 872 dry tons of biosolids were reused in composting operations. This includes approximately 664 dry tons that were stockpiled during 2002 and 2003. No biosolids remain in stockpiles as of December 31, 2004. A copy of the Annual Federal Biosolids Report for 2004 for the Palmdale WRP is included as Appendix B.

1.6 OPERATIONAL AND MAINTENANCE ACTIVITIES

Palmdale WRP operates on-site oxidation ponds. Pond 1 has been out of service for over 5 years due to a damaged effluent pipeline. Pond 1 will remain off-line (out of service) until the need for additional oxidation capacity arises in the future.

Ponds 4 and 5 are aerated, which permits pond BOD loadings in excess of 60 lbs/acre/day, while maintaining the remaining ponds below the BOD limit.

1.7 EFFLUENT REUSE

Reclaimed water for reuse and land application was delivered to the Effluent Management Site (EMS) located on Los Angeles World Airports (LAWA) property during 2004. The reuse/land application areas are shown in Figure 1.1.

The EMS site is a 1,920-acre area located north and northeast of the Palmdale WRP. The District entered into a lease with LAWA for the use of this land. Only a portion of this area is currently

dedicated to agricultural reuse of reclaimed water. Reclaimed water that is not used for irrigation is discharged to other portions of the EMS site for land application. The areas used for reuse operations and the responsible operators are:

Harrington Farms	-	23 acres for growing pistachio trees
District (Tree Farm)	-	28 acres for growing afghan pines, 4 acres of tree barriers
Antelope Valley Farms, LLC	-	1,038 acres for growing livestock fodder (alfalfa hay, sudan grass, and winter grains)

In 2004, approximately 39.75 MG of recycled water were used by Harrington Farms, 41.64 MG by the District's tree farm and 9.27 MG for the District's tree barriers. Also in 2004, Antelope Valley Farming operated ten center-pivot irrigation systems for irrigation of forage crops, five of which were completed in fall 2004. Antelope Valley Farming began irrigating forage crops in March 2002. During 2004, Antelope Valley Farming used 1,076.51 MG.

In June 2003, the District purchased the tree nursery from Tree Mover Inc. The District continues the cultivation of afghan pines, which are used for wind barriers at the Palmdale WRP EMS.

NAME AND ADDRESS OF USERS

Harrington Farms
Mr. Lee Harrington
3380 Highway 33
Maricopa, CA 93252

Antelope Valley Farming, LCC
Mr. Craig Van Dam
9753 East Avenue F-8
Lancaster, CA 93535

TABLE 1.1
PALMDALE WATER RECLAMATION PLANT
RECLAIMED WATER USAGE MONITORING REPORT- 2004

User	Reclaimed water delivered		Use Area	Type of Use
	Daily Mean (MGD)	Annual Total (MG)	(Acres)	
Harrington Farms	0.11	39.75	23	Pistachio Orchard Irrigation
District's Tree Farm	0.11	41.64	28	Irrigation of afghan pines
District	0.03	9.27	4	Tree Barriers
Antelope Valley Farming	2.94	1076.51	1038	Livestock fodder Irrigation
TOTALS	3.19	1167.17	1093	

FIGURE 1.1
PALMDALE WRP EFFLUENT MANAGEMENT - OPERATIONS

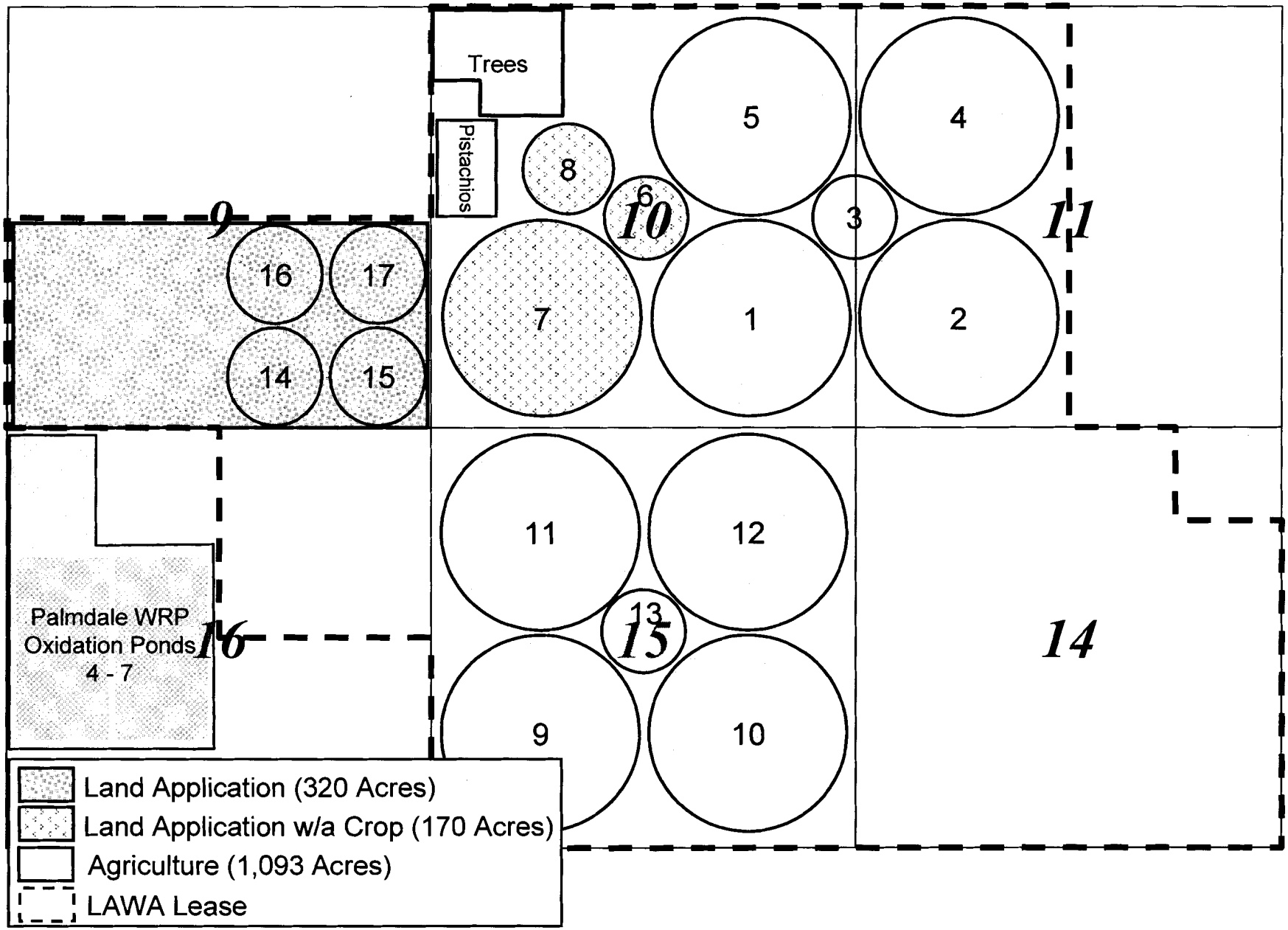


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

PALMDALE WATER RECLAMATION PLANT

CHAPTER 2

WASTEWATER FACILITY, LABORATORY AND STAFF

CHAPTER 2

WASTEWATER FACILITY, LABORATORY AND STAFF

2.1 PALMDALE WATER RECLAMATION PLANT

The Palmdale WRP is located at 39300 30th Street East, Palmdale, California, 93550.

The Palmdale WRP has a design capacity of 15 mgd. The Palmdale WRP has waste discharge requirements for irrigation and land application of reclaimed water. Figure 2-1 shows the details of the plant (including both 30th and 40th street sites), the City of Los Angeles World Airports (LAWA) irrigation site, and the locations of the groundwater monitoring wells and lysimeters.

Process Description

Figure 2-2 is a process schematic of the plant that uses the following process sequence: comminution, primary sedimentation and oxidation ponds. Primary sludge and primary skimmings are anaerobically digested. The digested sludge is dried in drying beds and stockpiled on site.

Chronology

The chronology in Table 2-1 is provided as background in understanding how the plant evolved to its present state of development.

Facility Improvements in 2004

During 2004 the District implemented various interim treatment improvements to reduce effluent nitrogen concentrations. Digester supernatant treatment started September 9, 2004 and ferric chloride addition to enhance particulate nitrogen removal started September 24, 2004. An evaluation of the performance of these improvements was reported in the 4th Quarter Status Report in compliance with the CAO, which was submitted on January 14, 2005. The actual performance of interim measures to reduce effluent nitrogen concentrations has been less than expected.

In addition, during 2004 the District installed and operated temporary chlorination facilities to chlorinate the Palmdale WRP effluent. The permanent facilities are currently under construction and a Report of Wasted Discharge for this process change was submitted by the District during 2004.

The District continued to implement improvements in effluent reuse and land application practices at the effluent management site during 2004. The installation of five center pivot irrigation systems for reuse in Section 15 was completed in August 2004. In addition, the installation of four of the eight center pivots for land application in Section 9 (Pivots 14-17) was completed in December 2004.

TABLE 2-1
CHRONOLOGY
PALMDALE WATER RECLAMATION PLANT

Item	Contract Number	Date
District 20 formed		08/07/51
Palmdale Treatment Plant completed (0.75 MGD)	767	09/04/53
District 20 enlarged (0.75 TO 2.5 MGD)		1956
Oxidation Ponds 5 and 6	1122	09/22/57
Digester Tank No. 2	1135	01/08/58
Dike Lining Pond 6	1239	10/03/58
Percolation Ponds 1 and 2	1237	11/03/58
District 20 Effluent Line	1238	11/14/58
Dike Lining Pond 5	1255	01/27/59
Effluent use for irrigation began		05/01/59
Oxidation ponds 1-4 and percolation ponds 1-4 combined	1398	08/03/61
District 20 Stage I Expansion (2.5 MGD to 3.1 MGD)	1996	09/14/72
Interim disposal ponds 6-9		10/80
Effluent Relief Line (24-inch)	2671	01/09/84
DOA Effluent Delivery Line (18-inch)		01/20/84
Stage II Expansion (3.1 MGD to 6.5 MGD)	2883	02/22/89
Oxidation Ponds 4 and 5	2975	05/05/89
Primary Effluent Relief Line	3055	07/19/90
Stage III Expansion (6.5 MGD to 8 MGD)	3098	07/14/93
Pond Effluent System	3168	10/30/92
Fire Protection & Water Supply Improvements	3213	11/04/92
Stage IV Groundwater Monitoring Facilities	3340	12/29/95
Stage IV Expansion (8.0 MGD to 15.0 MGD)	3341	02/26/97*

* The treatment facilities for Stage IV expansion were placed in operation in July 1996.

Operators at the Palmdale WRP and their certifications are listed in Table 2-2.

TABLE 2-2

TREATMENT PLANT OPERATORS
PALMDALE WATER RECLAMATION PLANT
ANNUAL REPORT - 2004

Operator	Shift	Certification
Tim Linn, Supervisor	Day	Grade III
Roberto Martinez	Day	Grade III
William Zeller	Day	Grade II
James Barrick	Day	Grade II

2.2 PALMDALE WRP LABORATORY DATA

Laboratory Quality Assurance Activities

The Quality Assurance (QA) group of the Laboratory Section is responsible for monitoring the validity and quality of analytical data produced in the laboratory. In order to accomplish this goal, a quality assurance plan prepared by the QA Group is strictly adhered to. The plan includes routine QA activities that are performed in the laboratory in order to assure the defensibility of data reported.

In 2004, routine intra-laboratory and inter-laboratory QA activities that were performed included, but were not limited to, the following:

Intra-laboratory Quality Control

1. A routine practice of running laboratory control samples, duplicates and matrix spikes or duplicate spikes for every ten samples, or every analytical batch of less than ten samples, was maintained for most sample types. Control limits have been established for both precision and accuracy for most analytes, and quality control data were plotted on control charts for trend analyses. For situations where the data were outside of the control limits, corrective action was initiated and maintained at the bench level until the problems were solved.

2. A reagent or method blank was routinely run with each batch of samples as a contamination check.

3. Calibration standards were analyzed as required in the analytical methods. For some tests, a daily calibration verification standard was used to check the initial calibration curve. For other tests, a multi-point calibration curve was prepared on each day of analysis.

   For some organic procedures, surrogate standards were added to every sample, duplicate, spike, and blank to monitor the performance of the procedure. The results were

compared to established acceptance limits. When unacceptable QA results were obtained, corrective action was performed.

4. Instrument QA was also performed (e.g., for GC/MS, mass calibration and tuning were performed to meet ion abundance criteria required by the analytical procedure).

5. Chemical and bacteriological suitability testing was conducted monthly on the laboratory reagent water used for microbiological testing.

6. In the Microbiology groups, positive, negative, and sterility checks were performed on each batch of prepared media.

7. The Biology group performed routine toxicity bioassay QA by running a known toxicant with every batch of samples. They also performed other QA activities as required for a biology laboratory.

Inter-laboratory Quality Control

1. The laboratory participated in the California Department of Health Services' Environmental Laboratory Accreditation Program (ELAP) Performance Evaluation studies as part of re-certification for chemistry and microbiology. Overall performance was satisfactory.

2. Quality control samples in the form of QC check standards, either prepared in-house or purchased from commercial sources, were issued by the QA group to the laboratory. In situations where the results were not acceptable, the analysts and their supervisors were informed and error resolutions were performed. This consisted of checking calculations, data transcription, instrumentation, methodology, etc. Follow-up check samples were issued to verify that the analyses were back in control.

3. The QA Group also issued split samples collected from one of the water reclamation plants to assess analysis in a real environmental matrix. Results of these analyses were submitted to the QA group for statistical evaluation.

4. A sample for coliform testing and a multiple-analyst plate count was distributed to all the laboratories on a monthly basis.

5. The laboratory was site-visited and audited by ELAP personnel as part of the re-certification process of the laboratory.

Laboratory Data Organization

The monitoring programs at the Palmdale WRP can be rather complex; consequently, the following explanation is provided to aid in interpreting the data.

Data are maintained in two databases:

1. An **operational database** for data which normally are monitored daily or weekly and are used for the day-to-day operation of the plants. These include flow, BOD, suspended solids, etc. Many of the parameters included in the operational database must be monitored and reported in accordance with the requirements listed waste discharge requirements.

Monthly and annual averages are presented along with other descriptive statistics.

2. A **laboratory database** for data which normally are monitored monthly or less often. These include primarily metals and organic compounds. Separate data summaries are presented for:
   - **Influent monitoring**
   - **Effluent monitoring**

Laboratory Test Codes

The Palmdale WRP uses a unique 3-character code to identify each constituent in the laboratory database. Priority pollutants and other significant constituents are organized into the following groups:

Test Group	Test Code Series
Physical Properties and Solids	100
Nitrogens and Sulfurs	200
Miscellaneous	300
Carbons	400
Chlorinated Pesticides and PCBs	500
Volatile Organic Compounds	600
Metals	700
Base-Neutral/Acid Extractable Compounds	800
Dioxins	D00
Furans	F00

In the laboratory data summaries, the constituents are sorted in numerical order according to the test code. Both the constituent name and test code are given at the top of each column in the data summary. Table 2-3 is provided for assistance in finding specific constituents in the summaries. One can first look for the desired constituent in this table (arranged alphabetically) to find the test code. Then, knowing the test code, one can find the desired constituent and its data in the tables that follow Table 2-3 (arranged in numeric order).

Statistical summaries follow the influent and effluent data and effluent limits follow the effluent statistical summaries.

Detection Limits

Sample results below the method detection limits are indicated by the use of the less than symbol (<).

The laboratory analytical methods and detection limits are included in Appendix C.

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
1,1,1-TRICHLOROETHANE	603
1,1,2,2-TETRACHLOROETHANE	653
1,1,2-TRICHLOROETHANE	618
1,1-DICHLOROETHANE	616
1,1-DICHLOROETHENE	605
1,2,3,4,6,7,8-HEPTACHLORODIBENZFURAN	F23
1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN	D27
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	F24
1,2,3,4,7,8-HEXACHLORODIBENZODIOXIN	D24
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	F19
1,2,3,4-TETRACHLORODIBENZODIOXIN	D18
1,2,3,4-TETRAMETHYLBENZENE	686
1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN	D25
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	F20
1,2,3,7,8,9-HEXACHLORODIBENZODIOXIN	D26
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	F22
1,2,3,7,8-PENTACHLORODIBENZODIOXIN	D22
1,2,3,7,8-PENTACHLORODIBENZOFURAN	F17
1,2,3-TRICHLOROBENZENE	889
1,2,3-TRICHLORODIBENZODIOXIN	D14
1,2,3-TRICHLORODIBENZOFURAN	F15
1,2,4,7,8-PENTACHLORODIBENZODIOXIN	D23
1,2,4-TRICHLOROBENZENE	846
1,2,7,8-TETRACHLORODIBENZODIOXIN	D19
1,2-4TRICHLORODIBENZODIOXIN	D15
1,2-DIBROMOETHANE	673
1,2-DICHLOROBENZENE	819
1,2-DICHLORODIBENZOFURAN	F13
1,2-DICHLOROETHANE	619
1,2-DICHLOROPROPANE	650
1,2-DIPHENYLHYDRAZINE	829
1,3,5-TRICHLOROBENZENE	899
1,3,7,8-TETRACHLORODIBENZODIOXIN	D20
1,3-BUTADIENE	675
1,3-DICHLOROBENZENE	820
1,4-DICHLOROBENZENE	821
1,4-DIOXANE	696
1,6-DICHLORODIBENZODIOXIN	D11
1,7,8-TRICHLORODIBENZODIOXIN	D16
1-CHLORODIBENZODIOXIN	D09
1-CHLORODIBENZOFURAN	F09
1-METHYLNAPHTHALENE	894
1-METHYLPHENANTHRENE	896
1-PROPANOL	671
2,3,4,5-TETRACHLOROPHENOL	687
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	F21
2,3,4,7,8-PENTACHLORODIBENZOFURAN	F18
2,3,4-TRICHLOROPHENOL	693

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
2,3,5,6-TETRACHLOROPHENOL	688
2,3,5-TRICHLOROPHENOL	689
2,3,5-TRIMETHYLNAPHTHALENE	898
2,3,6-TRICHLOROPHENOL	690
2,3,7,8-TCDD	844
2,3,7,8-TETRACHLORODIBENZOFURAN	F16
2,3,7-TRICHLORODIBENZODIOXIN	D17
2,3-BENZOFLUORENE	884
2,3-DICHLORODIBENZODIOXIN	D12
2,3-DICHLORODIBENZOFURAN	F14
2,4,5-T	5C1
2,4,5-TP(SILVEX)	518
2,4,5-TRICHLOROPHENOL	691
2,4,6-TRICHLOROPHENOL	664
2,4,6-TRICHLOROPHENOL	856
2,4-D(ACID)	517
2,4-DB	5C2
2,4-DICHLOROPHENOL	658
2,4-DICHLOROPHENOL	847
2,4-DIMETHYLPHENOL	626
2,4-DIMETHYLPHENOL	848
2,4-DINITROPHENOL	659
2,4-DINITROPHENOL	849
2,4-DINITROTOLUENE	826
2,4-DP (DICHLORPROP)	5B7
2,6-DIMETHYLNAPHTHALENE	892
2,6-DINITROTOLUENE	827
2,7-DICHLORODIBENZODIOXIN	D13
2-BUTANONE	680
2-CHLORODIBENZODIOXIN	D10
2-CHLORODIBENZOFURAN	F10
2-CHLOROETHYLVINYLETHER	648
2-CHLORONAPHTHALENE	815
2-CHLOROPHENOL	657
2-CHLOROPHENOL	845
2-HEXANONE	699
2-METHYL FLUORANTHENE	887
2-METHYL-4,6DINITROPHENOL	660
2-METHYL-4,6DINITROPHENOL	850
2-METHYLNAPHTHALENE	895
2-NITROPHENOL	661
2-NITROPHENOL	851
2-PROPANOL	672
2378TETRACHLORODIBENZODIOXIN	D21
3,3'-DICHLOROBENZIDINE	822
3,4,5-TRICHLOROPHENOL	692
3,6-DIMETHYLPHENANTHRENE	893
3-CHLORODIBENZOFURAN	F11

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
4-BROMOPHENYL PHENYLETHER	813
4-CHLORO-3-METHYLPHENOL	656
4-CHLORO-3-METHYLPHENOL	853
4-CHLORODIBENZOFURAN	F12
4-CHLOROPHENYLPHENYLETHER	816
4-METHYL-2-PENTANONE	681
4-NITROPHENOL	662
4-NITROPHENOL	852
7,12DIMETHYLBENZ(A)ANTHRACENE	888
9,10-DIPHENYLANTHRACENE	883
ACENAPHTHENE	800
ACENAPHTHYLENE	801
ACETIC ACID	639
ACETONE	676
ACETONITRILE	665
ACIDITY	318
ACROLEIN	654
ACRYLONITRILE	655
ADA (ANTHRAQUINONE DSA)	329
ALDRIN	512
ALPHA-BHC	508
ALUMINUM	707
AMMONIA NITROGEN	201
ANTHRACENE	802
ANTIMONY	725
AROCLOR 1016	535
AROCLOR 1221	536
AROCLOR 1232	537
AROCLOR 1242	519
AROCLOR 1248	538
AROCLOR 1254	520
AROCLOR 1260	539
ARSENIC	705
ATRAZINE	550
AVAILABLE CALCIUM OXIDE	321
AVAILABLE PHOSPHORUS	339
BARIUM	706
BENZENE	620
BENZIDINE	803
BENZO(A)ANTHRACENE	804
BENZO(A)PYRENE	805
BENZO(B)FLUORANTHENE	806
BENZO(E)PYRENE	890
BENZO(G.H.I.)PERYLENE	807
BENZO(K)FLUORANTHENE	808
BENZYL CHLORIDE	678
BERYLLIUM	726
BETA-BHC	523

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
BICARBONATE ALKALINITY	306
BIPHENYL	891
BIS(2-CHLOROETHYL)ETHER	810
BIS(2-CL-ETHOXY)METHANE	809
BIS(2-CL-ISOPROPYL)ETHER	811
BISMUTH	727
BORON	314
BROMIDE	319
BROMODICHLOROMETHANE	608
BROMOETHANE	694
BROMOFORM	610
BROMOMETHANE	646
BUTANE	635
BUTYLBENZYL PHTHALATE	814
BUTYRIC ACID	642
C+T 1,3-DICHLOROPROPENE	6B6
CADMIUM	708
CALCIUM	703
CALCIUM-HARDNESS	701
CARBON DISULFIDE	285
CARBON DISULFIDE	698
CARBON TETRACHLORIDE	604
CARBONACEOUS BOD5 (CBOD5)	412
CARBONATE ALKALINITY	307
CARBONYL SULFIDE	284
CCL4 ACTIVITY (CARBON)	121
CERIUM	728
CESIUM	729
CHLORIDE	301
CHLORINATED PESTICIDES	5B0
CHLORINE DEMAND	303
CHLORINE RESIDUAL	302
CHLOROBENZENE	611
CHLOROETHANE	647
CHLOROFORM	602
CHLOROMETHANE	649
CHRYSENE	817
CIS-1,2-DICHLOROETHYLENE	677
CIS-1,3-DICHLOROPROPENE	651
CIS-CHLORDANE	526
CIS-CHLORDENE	541
CIS-NONACHLOR	543
CN AMENABLE TO CHLORINE	210
COBALT	711
COLOR, APPARENT	104
CONDUCTIVITY	102
COPPER	712
DALAPON	5B5

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
DELTA-BHC	524
DI-N-BUTYL PHTHALATE	825
DI-N-OCTYL PHTHALATE	828
DIBENZO(A,H)ANTHRACENE	818
DIBROMOCHLOROMETHANE	609
DICAMBA	5B6
DICHLORODIBENZODIOXINS	D02
DICHLORODIBENZOFURANS	F02
DICHLORVOS	5B1
DICYCLOPENTADIENE	6B5
DIELDRIN	513
DIETHYL PHTHALATE	823
DIETHYL SULFIDE	290
DIETHYLHEXYL PHTHALATE	812
DIMETHYL PHTHALATE	824
DIMETHYL SULFIDE	286
DIMETHYLDISULFIDE	291
DINOSEB	5C3
DISSOLVED OXYGEN	115
ECE (SOIL SALINITY)	E01
EDTA	327
EDTA-IRON(I)	347
ENDOSULFAN I	531
ENDOSULFAN II	532
ENDOSULFAN SULFATE	533
ENDRIN	514
ENDRIN ALDEHYDE	534
ETHANE	633
ETHANOL	623
ETHYL BENZENE	624
ETHYL MERCAPTAN	260
ETHYL MERCAPTAN	283
FLUORANTHENE	830
FLUORENE	831
FLUORIDE	313
FORMALDEHYDE	697
FREE ALKALI	345
FREE CYANIDE	207
FREON 11 (CCL3F)	669
FREON 12 (CCL2F2)	668
FREON 21 (CHCL2F)	670
FREON TF	617
GAMMA RADIATION	372
GOLD	370
GROSS ALPHA RADIOACTIVITY	371
GROSS BETA RADIOACTIVITY	510
HEPTACHLOR	511
HEPTACHLOR EPOXIDE	D07

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
HEPTACHLORODIBENZODIOXINS	F07
HEPTACHLORODIBENZOFURANS	730
HEXACHLOROBENZENE	832
HEXACHLOROBUTADIENE	833
HEXACHLOROCYCLOPENTADIENE	834
HEXACHLORODIBENZODIOXINS	D06
HEXACHLORODIBENZOFURANS	F06
HEXACHLOROETHANE	835
HEXANE	637
HEXAVALENT CHROMIUM	710
HYDROGEN CYANIDE	209
HYDROGEN SULFIDE	261
HYDROGEN SULFIDE	281
HYDROXIDE ALKALINITY	308
INDENO(1,2,3-C,D)PYRENE	836
IRON	713
ISOBUTYL MERCAPTAN	289
ISOBUTYRIC ACID	641
ISOPHORONE	837
ISOPROPYL MERCAPTAN	287
ISOPROPYLBENZENE	684
ISOVALERIC ACID	643
KEPONE	5C5
LANTHANUM	731
LEAD	714
LINDANE (GAMMA-BHC)	509
LITHIUM	715
M+P CRESOL	862
M+P-CRESOL	628
M+P-XYLENE	695
M-DICHLOROBENZENE	614
M-XYLENE	666
MAGNESIUM	704
MAGNESIUM-HARDNESS	702
MANGANESE	716
MBAS	315
MCPA	5B9
MCPP	5B8
MERCAPTANS	258
MERCURY	717
METHANE	632
METHANOL	622
METHOXYCLOR	516
METHYL MERCAPTAN	259
METHYL MERCAPTAN	282
METHYL PYRENE	886
METHYLENE CHLORIDE	601
MEVINPHOS	5B2

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
MIREX	552
MOLYBDENUM	732
MONOCHLORODIBENZODIOXINS	D01
MONOCHLORODIBENZOFURANS	F01
N-BUTYL MERCAPTAN	295
N-NITROSODI-N-PROPYLAMINE	841
N-NITROSODIMETHYLAMINE	840
N-NITROSODIPHENYLAMINE	857
N-PROPYL MERCAPTAN	293
N-PROPYLBENZENE	685
NALED (DIBROM)	5B3
NAPHTHALENE	838
NICKEL	718
NID	316
NITRATE NITROGEN	204
NITRITE NITROGEN	205
NITROBENZENE	839
NOX (AS NO2)	211
O+P DICHLOROBENZENE	674
O+P-XYLENE	667
O-CRESOL	627
O-CRESOL	861
O-DICHLOROBENZENE	613
O-XYLENE	629
OCTACHLORODIBENZODIOXIN	D08
OCTACHLORODIBENZOFURAN	F08
OIL & GREASE	408
OP'-DDD	503
OP'-DDE	501
OP'-DDT	505
ORGANIC LEAD	7A1
ORGANIC NITROGEN	202
ORTHO PHOSPHATE	311
OXYCHLORDANE	529
P-DICHLOROBENZENE	615
P-XYLENE	630
PENTACHLORODIBENZODIOXINS	D05
PENTACHLORODIBENZOFURANS	F05
PENTACHLOROPHENOL	663
PENTACHLOROPHENOL	854
PENTANE	636
PERYLENE	897
PH	101
PHENANTHRENE	842
PHENOL	855
PHENOL(BY GC)	631
PHENOLS	312
PHENYLACETIC ACID	860

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
PHTHALATE ESTERS	6B4
PICLORAM	5C4
PLUTONIUM	128
POLYCHLORINATED PHENOLS	6B1
POTASSIUM	325
POTASSIUM	719
POTASSIUM-40	131
PP'-DDD	504
PP'-DDE	502
PP'-DDT	506
PROPANE	634
PROPIONIC ACID	640
PYRENE	843
PYRIDINE	858
RADIUM 226+228	126
RADON	123
SALINITY	317
SAR	107
SEC-BUTYL MERCAPTAN	288
SELENIUM	720
SER	106
SETTLEABLE SOLIDS	156
SILICON	721
SILVER	722
SIMAZINE	551
SODIUM	723
SODIUM POTASSIUM TARTRATE	346
SOLUBLE BOD	402
SOLUBLE COD	404
SOLUBLE PHOSPHATE	320
SOLUBLE SULFIDE	252
SORBITOL	328
SPECIFIC GRAVITY	113
STRONTIUM	733
STRONTIUM-90	124
STYRENE	682
SULFATE	257
SULFITE	254
SULFUR DIOXIDE	292
SUSPENDED SOLIDS	151
TECHNICAL CHLORDANE	540
TEMPERATURE	111
TERT-BUTYL MERCAPTAN	294
TETRACHLORODIBENZODIOXINS	D04
TETRACHLORODIBENZOFURANS	F04
TETRACHLOROETHYLENE	607
TETRAHYDROFURAN	679
THALLIUM	734

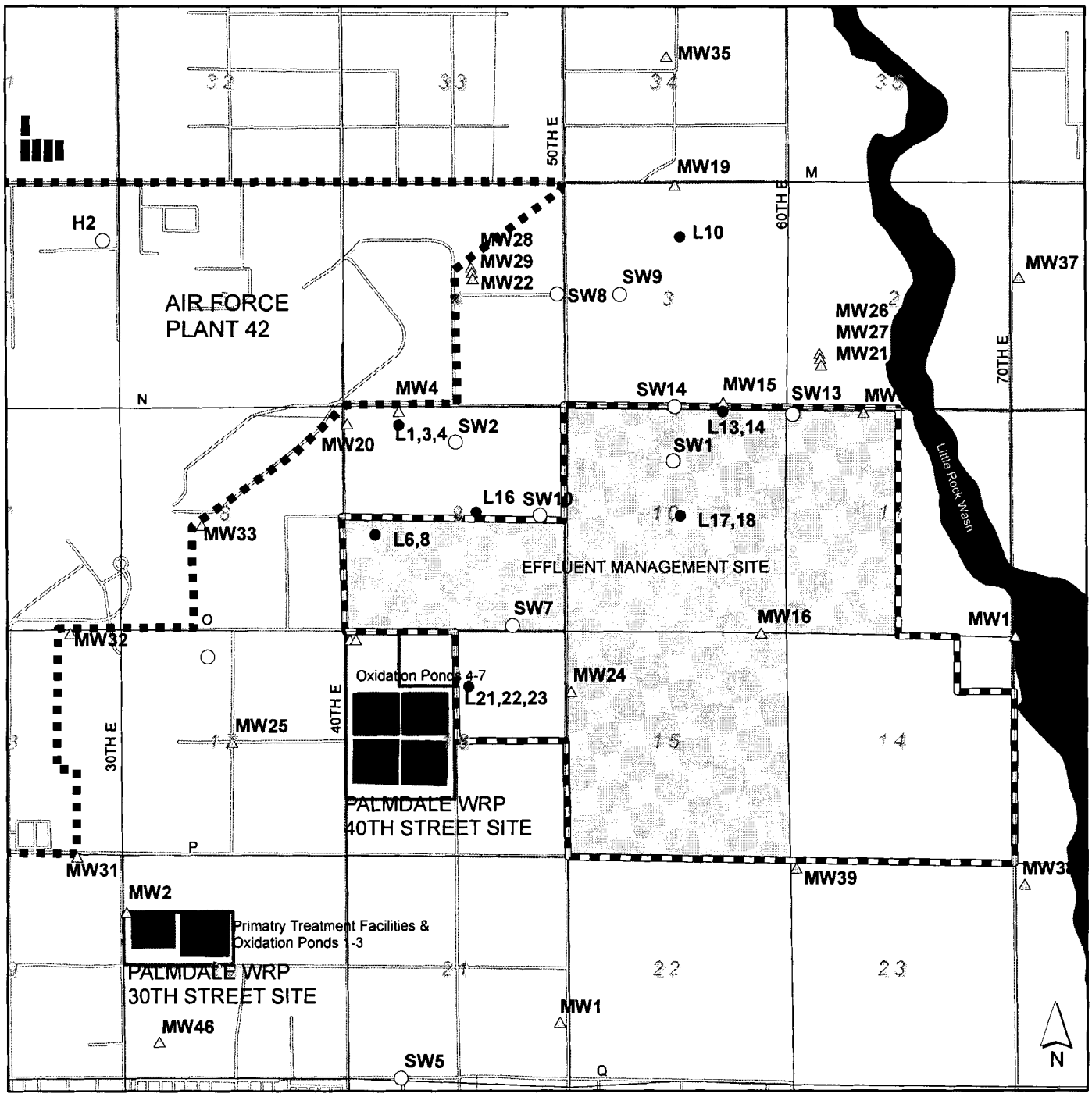
TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
THIOCYANATE	256
THIOSULFATE	253
THORIUM	129
TICH	522
TIN	735
TITANIUM	736
TOLUENE	621
TOTAL ALKALINITY	305
TOTAL BOD	401
TOTAL CARBAMATE PESTICIDE	5B4
TOTAL CHROMIUM	709
TOTAL COD	403
TOTAL CYANIDE	206
TOTAL DETECTABLE DDT	507
TOTAL DETECTABLE PCBS	521
TOTAL DETECTED CHLORDANES	530
TOTAL DETECTED PESTICIDES	549
TOTAL DISSOLVED SOLIDS	155
TOTAL HARDNESS	309
TOTAL HCH	525
TOTAL KJELDAHL NITROGEN	203
TOTAL NITROGEN	208
TOTAL NITROGEN	326
TOTAL ORGANIC CARBON	405
TOTAL ORGANIC HALOGEN (TOX)	410
TOTAL PHOSPHATE	310
TOTAL PHOSPHOROUS	324
TOTAL SOLIDS	153
TOTAL SULFIDE	251
TOTAL SULFUR	255
TOTAL XYLENE ISOMERS	6B7
TOXAPHENE	515
TRANS-1,2-DICHLOROETHYLENE	645
TRANS-1,3-DICHLOROPROPENE	652
TRANS-CHLORDANE	527
TRANS-CHLORDENE	542
TRANS-NONACHLOR	528
TRIBUTYLTIN	553
TRICHLORODIBENZODIOXINS	D03
TRICHLORODIBENZOFURANS	F03
TRICHLOROETHYLENE	606
TRIPHENYLENE	885
TRITIUM	122
TURBIDITY	103
URANIUM	125
VALERIC ACID	644
VANADIUM	737
VANADIUM-49	130

TABLE 2-3
LABORATORY DATABASE
CONSTITUENTS IN ALPHABETICAL ORDER

CONSTITUENTS	TEST CODE
VINYL ACETATE	625
VINYL CHLORIDE	612
VISCOSITY	114
VOLATILE ACIDS	638
VOLATILE SUSPENDED SOLIDS	152
VOLATILE TOTAL SOLIDS	154
ZINC	724

FIGURE 2.1
PALMDALE WATER RECLAMATION PLANT
Effluent Management Site, Wells and Lysimeters

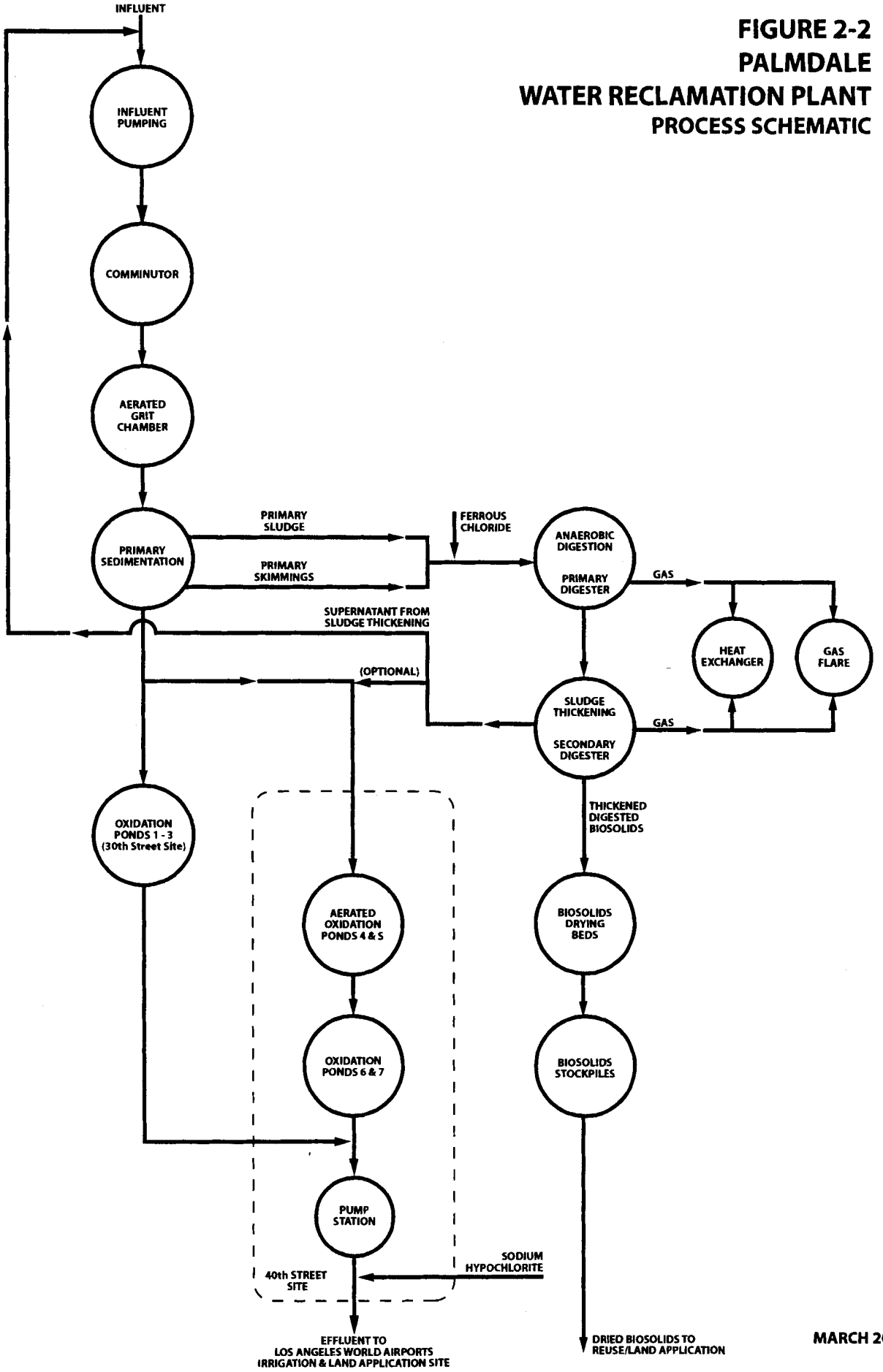


- Lysimeter
- Supply Well
- Monitoring Well
- Lease Area from Los Angeles World Airports (LAWA)
- Authorized EMS
- Air Force Plant 42

SANITATION DISTRICTS OF LOS ANGELES COUNTY

P:\ArcGis\Palmdale\MonthlyReport 02/25/2005

FIGURE 2-2
PALMDALE
WATER RECLAMATION PLANT
PROCESS SCHEMATIC



MARCH 2004

PALMDALE WATER RECLAMATION PLANT

CHAPTER 3

WASTEWATER MONITORING DATA

CHAPTER 3

WASTEWATER MONITORING DATA

3.1 INTRODUCTION

This chapter contains data that are related to the operation and performance of the treatment plant. The data are summarized in tables and are presented in the following order: flow data, freeboard data, influent water quality data, and effluent water quality data. All data are presented together with descriptive statistics and with WDR limits. For the purpose of calculating annual averages, data that are collected during the same month are averaged first, and the average level for that month is entered in the calculation along with the data taken during the remainder of the year. In calculating averages, levels below the Minimum Detection Limit (MDL), or Reporting Minimum Limit (RML) are assumed to be equal to the MDL or RML, and not zero. Additional data and follow-up samples are averaged and presented for the month these were collected, or for the month where compliance was assessed.

The data summaries may contain results that were not reported in monthly monitoring reports. Additional data can result from sampling conducted for purposes other than routine monitoring. The additional sampling may have been performed by other agencies (i.e., WQCB), or by the District for a special study, or as a sampling follow-up to a questionable sample.

3.2 TABULAR AND GRAPHICAL SUMMARIES

Data are summarized in Tables 3.1 - 3.10. The tables summarize and present the results for the month the samples were collected. Influent and effluent data are summarized in tables based on the location and frequency collected.

Selected data for 2004 are summarized in Figures 3.1 – 3.7. Levels below the MDL or RML are presented as the numerical levels of the MDL or RML.

TABLE 3.1

PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT AND EFFLUENT FLOWS

2004	INFLUENT[1]			EFFLUENT										
				TO LAWA		REUSE			LAND APPLICATION with CROP			LAND APPLICATION		
Month	Monthly Mean	Maximum Instantaneous	Total Influent	Monthly Mean	Total	Monthly Mean	Total	% Flow	Monthly Mean	Total	% Flow	Monthly Mean	Total	% Flow
	(MGD)	(MGD)	(MG)	(MGD)	(MG)	(MGD)	(MG)	(%)	(MGD)	(MG)	(%)	(MGD)	(MG)	(%)
January	9.2	10.0	284.9	9.1	282.2	1.4	42.8	15.1%	1.6	48.5	17.2%	6.2	191.0	67.7%
February	9.3	10.1	268.7	8.4	244.7	1.0	28.0	11.4%	0.6	18.6	7.6%	6.8	198.1	81.0%
March	9.1	10.1	283.0	8.9	274.6	2.2	67.3	24.5%	1.4	44.1	16.0%	5.3	163.3	59.5%
April	8.8	9.5	264.6	7.8	233.4	3.1	93.3	40.0%	1.5	44.5	19.1%	3.2	95.5	40.9%
May	8.9	10.3	276.8	7.8	241.4	2.8	87.6	36.3%	0.9	29.3	12.1%	4.0	124.5	51.6%
June	8.8	9.7	264.5	7.6	227.1	3.0	89.3	39.3%	0.8	23.2	10.2%	3.8	114.6	50.5%
July	8.9	9.4	274.9	7.4	228.4	3.4	105.3	46.1%	1.8	54.5	23.8%	2.2	68.6	30.0%
August	9.3	10.0	287.9	8.9	274.9	5.5	169.3	61.6%	1.3	41.1	15.0%	2.1	64.5	23.5%
September	10.0	11.3	298.8	7.3	220.2	6.1	181.6	82.4%	1.1	32.0	14.5%	0.2	6.6	3.0%
October	10.3	11.3	319.9	8.9	274.8	4.4	136.9	49.8%	1.2	36.4	13.3%	3.3	101.5	36.9%
November	10.2	11.8	306.4	8.6	256.5	2.1	62.0	24.2%	0.0	0.7	0.3%	6.5	193.9	75.6%
December	10.3	14.4	320.7	9.0	280.1	3.4	104.0	37.1%	0.2	4.7	1.7%	5.5	171.4	61.2%
Mean	9.4	10.7	287.6	8.3	253.2	3.2	97.3		1.0	31.5		4.1	124.5	
Max	10.3	14.4	320.7	9.1	282.2	6.1	181.6		1.8	54.5		6.8	198.1	
Min	8.8	9.4	264.5	7.3	220.2	1.0	28.0		0.0	0.7		0.2	6.6	
Total			3450.8		3038.3		1167.2	38.4%		377.7	12.4%		1493.5	49.2%
Limits	15.5	37.5												

[1] Represents influent to secondary treatment.

TABLE 3.2

PALMDALE WATER RECLAMATION PLANT

2004 OXIDATION POND FREEBOARD

Month	POND 2		POND 3		POND 4		POND 5		POND 6		POND 7	
	Mean (inches)	Min (inches)	Mean (inches)	Min (inches)	Mean (inches)	Min (inches)	Mean (inches)	Min (inches)	Mean (inches)	Min (inches)	Mean (inches)	Min (inches)
January	37	37	37	37	40	39	40	39	34	31	34	31
February	37	37	37	37	40	40	40	40	32	25	30	24
March	37	37	37	37	40	40	40	40	30	25	29	24
April	37	37	37	37	40	40	40	40	31	28	30	27
May	37	37	37	37	40	40	40	40	27	26	26	26
June	36	35	34	31	40	39	40	39	28	26	28	26
July	36	35	33	31	39	39	39	39	28	26	28	26
August	38	37	36	35	40	39	40	39	34	26	34	26
September	38	38	37	37	40	40	40	40	36	29	35	29
October	38	38	37	37	40	40	40	40	30	29	30	29
November	38	38	37	37	40	40	40	40	32	31	33	32
December	37	35	36	35	40	39	40	39	30	27	30	26
Mean	37	37	36	36	40	40	40	40	31	27	31	27
Maximum	38	38	37	37	40	40	40	40	36	31	35	32
Minimum	36	35	33	31	39	39	39	39	27	25	26	24
Limits Minimum		24		24		24		24		24		24

EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

TABLE 3.3

PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT WEEKLY DATA

		Annual	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Total BOD_5 (mg/l)	Mean	285	263	299	391	276	272	258	259	267	266	281	288	305
	Max.	768	272	363	768	306	318	404	305	276	302	287	316	331
	Min.	100	252	280	259	232	237	100	205	260	231	268	261	280
		Annual	**Jan.**	**Feb.**	**Mar.**	**Apr.**	**May**	**Jun.**	**Jul.**	**Aug.**	**Sept.**	**Oct.**	**Nov.**	**Dec.**
Total COD (mg/l)	Mean	592	581	619	570	632	587	574	564	569	583	549	607	662
	Max.	809	701	774	607	711	626	732	593	602	640	605	647	809
	Min.	290	521	576	458	560	557	290	542	547	521	501	561	583

TABLE 3.4

PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT MONTHLY DATA

TEST	INFLUENT	UNIT	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean	Max.	Min.
201	Ammonia	mg-N/L	24.5	27.3	27.4	28.4	29.0	28.6	27.6	29.1	25.5	24.4	26.0	26.2	27.0	29.1	24.4
203	Kjeldahl Nitrogen	mg-N/L	40.8	40.6	41.4	40.4	44.5	43.2	45.1	43.21	42.5	39.5	41.5	45.9	42.4	45.9	39.5
204	Nitrate	mg-N/L	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
205	Nitrite	mg-N/L	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
315	MBAS	mg/L	16	12.5	14.5	15.1	13.3	18.5	18.7	17.3	15.1	16.2	22.6	18.0	16.5	22.6	12.5

TABLE 3.5

PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT QUARTERLY AND SEMI-ANNUAL DATA

TEST	INFLUENT QUARTERLY DATA	UNIT	1st Quarter	2nd Quarter		3rd Quarter	4th Quarter	Mean	Max.	Min.
			February	May		August	November			
C15	Total Petroleum Hydrocarbons	µg/l	12000	11000		7500	11200	10425	12000	7500
TEST	**INFLUENT SEMI-ANNUAL DATA**	**UNIT**	**March**	**April**	**May**	**August**		**Mean**	**Max.**	**Min.**
155	Total Dissolved Solids	mg/l	498	509	NA	474	NA	494	509	474
602	Chloroform	µg/l	NA	NA	8	3	NA	6	8	3
608	Bromodichloromethane	µg/l	NA	NA	5	2	NA	4	5	2
609	Dibromochloromethane	µg/l	NA	NA	4	2	NA	3	4	2
610	Bromoform	µg/l	NA	NA	1	1	NA	1	1	1

NA - Not Analyzed

TABLE 3.6

PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT ANNUAL DATA

TEST	ANNUAL MISCELLANEOUS PARAMETERS	UNIT	AUGUST
206	Total Cyanides	µg/l	< 5
312	Total Phenols	µg/l	47
TEST	**ANNUAL METALS**	**UNIT**	**AUGUST**
703	Calcium	mg/l	24.0
704	Magnesium	mg/l	10.6
705	Arsenic	mg/l	< 0.001
706	Barium	mg/l	0.023
707	Aluminum	mg/l	0.58
708	Cadmium	mg/l	< 0.0004
709	Total Chromium	mg/l	< 0.01
711	Cobalt	mg/l	< 0.01
712	Copper	mg/l	0.037
713	Iron	mg/l	0.407
714	Lead	mg/l	< 0.002
716	Manganese	mg/l	0.016
717	Mercury	mg/l	0.00007
718	Nickel	mg/l	< 0.02
719	Potassium	mg/l	11.6
720	Selenium	mg/l	< 0.001
722	Silver	mg/l	< 0.025
723	Sodium	mg/l	122
724	Zinc	mg/l	0.263
725	Antimony	mg/l	< 0.0005
726	Beryllium	mg/l	< 0.0005
732	Molybdenum	mg/l	< 0.04
734	Thallium	mg/l	< 0.001
737	Vanadium	mg/l	< 0.02
TEST	**ANNUAL ACID EXTRACTIBLES**	**UNIT**	**AUGUST**
845	2-Chlorophenol	µg/l	< 50
847	2,4-Dichlorophenol	µg/l	< 50
848	2,4-Dimethylphenol	µg/l	< 20
849	2,4-Dinitrophenol	µg/l	< 50
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	< 50
851	2-Nitrophenol	µg/l	< 100
852	4-Nitrophenol	µg/l	< 100
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	< 10
854	Pentachlorophenol	µg/l	< 50
855	Phenol	µg/l	< 10
856	2,4,6-Trichlorophenol	µg/l	< 100

TABLE 3.6

PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT ANNUAL DATA

TEST	ANNUAL PESTICIDES & PCBs	UNIT	AUGUST
502	PP'-DDE	µg/l	< 0.01
504	PP'-DDD	µg/l	< 0.01
506	PP'-DDT	µg/l	< 0.01
508	Alpha-BHC	µg/l	< 0.01
509	Lindane (Gamma-BHC)	µg/l	< 0.01
510	Heptachlor	µg/l	< 0.01
511	Heptachlor Epoxide	µg/l	< 0.01
512	Aldrin	µg/l	< 0.01
513	Dieldrin	µg/l	< 0.01
514	Endrin	µg/l	< 0.01
515	Toxaphene	µg/l	< 0.5
519	Aroclor 1242	µg/l	< 0.1
520	Aroclor 1254	µg/l	< 0.05
523	Beta-BHC	µg/l	< 0.01
524	Delta-BHC	µg/l	< 0.01
531	Endosulfan I	µg/l	< 0.01
532	Endosulfan II	µg/l	< 0.01
533	Endosulfan Sulfate	µg/l	< 0.01
534	Endrin Aldehyde	µg/l	< 0.04
535	Aroclor 1016	µg/l	< 0.1
536	Aroclor 1221	µg/l	< 0.3
537	Aroclor 1232	µg/l	< 0.1
538	Aroclor 1248	µg/l	< 0.1
539	Aroclor 1260	µg/l	< 0.1
540	Technical Chlordane	µg/l	< 0.05
TEST	**ANNUAL VOLATILE ORGANICS**	**UNIT**	**AUGUST**
601	Methylene Chloride	µg/l	0.8
602	Chloroform	µg/l	3
603	1,1,1-Trichloroethane	µg/l	< 0.5
604	Carbon Tetrachloride	µg/l	< 0.5
605	1,1-Dichloroethene	µg/l	< 0.5
606	Trichloroethylene	µg/l	< 0.5
607	Tetrachloroethylene	µg/l	< 0.5
608	Bromodichloromethane	µg/l	2
609	Dibromochloromethane	µg/l	2
610	Bromoform	µg/l	1
611	Chlorobenzene	µg/l	< 0.5
612	Vinyl Chloride	µg/l	< 0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	< 0.5
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	< 0.5
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	6
616	1,1-Dichloroethane	µg/l	< 0.5
618	1,1,2-Trichloroethane	µg/l	< 0.5
619	1,2-Dichloroethane	µg/l	< 0.5
620	Benzene	µg/l	< 0.5
621	Toluene	µg/l	0.7
624	Ethyl Benzene	µg/l	< 0.5
645	Trans-1,2-Dichloroethylene	µg/l	< 0.5
646	Bromomethane	µg/l	< 0.5
647	Chloroethane	µg/l	< 0.5
648	2-Chloroethylvinylether	µg/l	< 0.5
649	Chloromethane	µg/l	< 0.5
650	1,2-Dichloropropane	µg/l	< 0.5
651	Cis-1,3-Dichloropropene	µg/l	< 0.5
652	Trans-1,3-Dichloropropene	µg/l	< 0.5
653	1,1,2,2-Tetrachloroethane	µg/l	< 0.5
654	Acrolein	µg/l	< 10
655	Acrylonitrile	µg/l	< 5

TABLE 3.6

PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT ANNUAL DATA

TEST	ANNUAL BASE/NEUTRAL EXTRACTIBLES	UNIT	AUGUST
800	Acenaphthene	µg/l	< 10
802	Anthracene	µg/l	< 100
803	Benzidine	µg/l	< 50
804	Benzoanthracene	µg/l	< 50
805	Benzopyrene	µg/l	< 0.04
806	Benzo(b)fluoranthene	µg/l	< 0.04
807	1,12-Benzoperylene	µg/l	< 50
808	Benzo(k)fluoranthene	µg/l	< 0.04
809	Bis(2-chloroethoxy)methane	µg/l	< 50
810	Bis(2-Chloroethyl)ether	µg/l	< 10
811	Bis(2-chloroisopropyl)ether	µg/l	< 20
812	Bis(2-diethylhexyl)phthalate	µg/l	32
813	4-Bromophenyl Phenyl Ether	µg/l	< 50
814	Butylbenzyl Phthalate	µg/l	< 100
815	2-Chloronaphthalene	µg/l	< 100
816	4-Chlorophenyl Phenyl Ether	µg/l	< 50
817	Chrysene	µg/l	< 0.02
818	1,2,5,6-Dibenzanthracene	µg/l	< 0.04
819	1,2-Dichlorobenzene	µg/l	< 20
820	1,3-Dichlorobenzene	µg/l	< 10
821	1,4-Dichlorobenzene	µg/l	< 10
822	3,3'-Dichlorobenzidine	µg/l	< 50
823	Diethyl Phthalate	µg/l	< 20
824	Dimethyl Phthalate	µg/l	< 20
825	Di-n-Butyl Phthalate	µg/l	< 100
826	2,4-Dinitrotoluene	µg/l	< 50
827	2,6-Dinitrotoluene	µg/l	< 50
828	Di-n-Octyl Phthalate	µg/l	< 100
829	1,2-Diphenylhydrazine	µg/l	< 10
830	Fluoranthene	µg/l	< 10
831	Fluorene	µg/l	< 100
832	Hexachlorobenzene	µg/l	< 10
833	Hexachlorobutadiene	µg/l	< 10
834	Hexachlorocyclopentadiene	µg/l	< 50
835	Hexachloroethane	µg/l	< 10
836	Indeno(1,2,3-c,d)pyrene	µg/l	< 0.04
837	Isophorone	µg/l	< 10
838	Naphthalene	µg/l	< 10
839	Nitrobenzene	µg/l	< 10
840	n-Nitrosodimethylamine	µg/l	< 50
841	n-Nitrosodi-n-propylamine	µg/l	< 50
842	Phenanthrene	µg/l	< 50
843	Pyrene	µg/l	< 100
846	1,2,4-Trichlorobenzene	µg/l	< 50
857	n-Nitrosodiphenylamine	µg/l	< 10

TABLE 3.7

PALMDALE WATER RECLAMATION PLANT

2004 EFFLUENT TO LAWA SITE (PONDS 2-7) WEEKLY DATA

Monthly Statistics	Suspended Solids mg/l	Soluble BOD_5 mg/l	Soluble COD mg/l	Soluble Carb. BOD_5 (SCBOD) mg/l	pH 0-14	Temp °C	Dissolved Oxygen mg/l
January							
Mean	63	17	84	8	7.9	7.6	1.3
Max.	82	19	91	12	8.1	8.9	1.6
Min.	50	14	78	6	7.8	5.3	1.1
February							
Mean	79	17	93	9	8.8	9.6	2.6
Max.	104	22	103	14	8.8	10.5	3.7
Min.	61	14	87	6	8.6	8.7	1.7
March							
Mean	78	17	107	>8	8.2	14.0	2.2
Max.	102	26	118	>16	8.8	17.6	3.1
Min.	56	8	100	5	7.8	10.5	1.2
April							
Mean	102	15	97	<6	8.4	16.0	1.8
Max.	141	30	108	10	8.6	16.5	1.9
Min.	78	4	87	<3	8.1	14.9	1.6
May							
Mean	73	11	88	5	8.7	16.7	1.6
Max.	94	28	96	>16	9.0	19.8	1.9
Min.	53	3	74	1	8.4	14.1	1.2
June							
Mean	83	10	85	<3	8.7	19.7	1.8
Max.	96	10	100	3	8.9	20.1	2.3
Min.	74	9	78	<3	8.3	18.9	1.4
July							
Mean	97	10	90	<5	8.0	22.0	2.5
Max.	112	11	100	7	8.8	23.0	3.0
Min.	75	10	78	<3	7.5	20.6	1.4
August							
Mean	67	14	85	5	7.7	20.9	1.5
Max.	78	16	93	6	7.9	22.0	2.3
Min.	52	9	75	3	7.5	19.5	1.0
September							
Mean	124	15	82	6	7.9	18.2	4.3
Max.	176	19	90	7	8.0	20.9	8.7
Min.	82	9	71	4	7.8	15.6	1.2
October							
Mean	83	12	94	<4	8.2	16.0	4.4
Max.	131	14	182	4	8.3	17.0	9.5
Min.	54	8	61	<3	7.9	15.0	2.3
November							
Mean	90	25	90	* 6 < 7 < 19	7.9	10.8	3.9
Max.	129	63	130	>16	8.2	12.5	5.0
Min.	57	8	67	<3	7.7	5.1	2.1
December							
Mean	63	13	75	7	8.0	7.1	7.9
Max.	71	15	80	9	8.1	8.9	9.4
Min.	58	11	73	5	8.0	5.1	6.5
Annual							
Mean	84	15	89	<6	8.2	14.9	3.0
Max.	176	63	182	>16	9.0	23.0	9.5
Min.	50	3	61	1	7.5	5.1	1.0
Limits							

The less than value of "< 6" was calculated using zero for the <3 and 16 for the > 16.

*The greater than value of "< 19" was calculated using 3 for the < 3 and 63 for the > 16, since the soluble carbonaceous BOD can't exceed the soluble BOD.

TABLE 3.8

PALMDALE WATER RECLAMATION PLANT

2004 EFFLUENT TO LAWA SITE (PONDS 2-7) MONTHLY DATA

TEST	MONTHLY PARAMETERS	UNIT	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean	Max.	Min.	LIMIT
155	Total Dissolved Solids	mg/l	490	514	499	522	530	562	557	558	531	501	489	492	520	562	489	
201	Ammonia	mg-N/l	26.6	24.1	24.0	22.3	22.6	20.4	20.8	21.3	19.5	20.1	20.2	21.8	22.0	26.6	19.5	
202	Organic Nitrogen	mg-N/l	13.4	15.1	12.8	12.55	15.0	12.5	14.9	10.0	14.0	11.9	14.0	12.1	13.2	15.1	10.0	
203	Kjeldahl Nitrogen	mg-N/l	40	39.2	36.8	34.8	37.6	32.9	35.7	31.4	33.5	32.0	34.2	33.9	35.2	40	31.4	
204	Nitrate	mg-N/l	<0.04	0.06	<0.07	<0.22	<0.18	0.20	0.16	0.08	<0.17	0.09	0.13	0.08	<0.12	<.22	<.04	
205	Nitrite	mg-N/l	<0.02	0.024	0.04	<0.13	0.21	0.23	0.20	0.15	0.14	0.13	0.07	<0.03	<0.11	0.27	<0.02	
257	Sulfate	mg/l	67	63	69.0	73	72.7	73.6	73.1	72.8	65.8	65.6	60.8	66.4	69	73.6	60.8	
301	Chloride	mg/l	107	101	102	112	113	118	122	123	114	119	116	115	113	123	101	
315	MBAS	mg/l	0.3	0.15	0.16	0.17	0.15	0.2	0.17	0.1	0.2	0.1	0.16	0.2	0.2	0.3	0.1	[1]
723	Sodium	mg/l	111	116	107	127	131	138	136	144	123	125	126	114	125	144	107	

[1] 30-day average=1.0 mg/l Maximum=2.0 mg/l

TABLE 3.9

PALMDALE WATER RECLAMATION PLANT

2004 EFFLUENT TO LAWA SITE (PONDS 2-7) QUARTERLY DATA

TEST	QUARTERLY COMPOSITE SAMPLES	UNIT	1st Quarter		2nd Quarter			3rd Quarter			4th Quarter			Mean	Max	Min
			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
405	Total Organic Carbon	µg/l	120000	NA	26000	18000	21300	15600	21300	17100	17100	14500	18300	28920	120000	15600
703	Calcium	mg/l	26.7	25.2	28.2	27.8	32.3	29.7	30.4	52.5	30.0	29.5	29.3	31.1	52.5	25.2
704	Magnesium	mg/l	9.5	10.1	11.0	11.2	12.4	12.1	13.2	10.8	10.8	10.6	12.8	11.3	13.2	9.5
705	Arsenic	mg/l	NA	NA	NA	0.0020	NA	NA	<0.001	NA	NA	<0.001	NA	<0.001	0.002	<0.001
708	Cadmium	mg/l	NA	NA	NA	<0.0004	NA	NA	<0.0004	NA	NA	<0.0004	NA	<0.0004	<0.0004	<0.0004
709	Total Chromium	mg/l	NA	NA	NA	<0.010	NA	NA	<0.010	NA	NA	<0.010	NA	<0.010	<0.010	<0.010
714	Lead	mg/l	NA	NA	NA	<0.002	NA	NA	<0.002	NA	NA	<0.002	NA	<0.002	<0.002	<0.002
717	Mercury	mg/l	NA	NA	NA	<0.00004	NA	NA	<0.00004	NA	NA	<0.0004	NA	<0.00004	<0.00004	<0.00004
718	Nickel	mg/l	NA	NA	NA	<0.020	NA	NA	<0.020	NA	NA	<0.020	NA	<0.020	<0.020	<0.020
719	Potassium	mg/l	13.4	<10	12.9	15.9	16.3	13.4	13.8	15.9	16.0	14.2	13.1	<14.1	16.3	<10
722	Silver	mg/l	NA	NA	NA	0.00058	NA	NA	<0.0002	NA	NA	<0.00020	NA	<0.00033	0.00058	<0.00020
725	Antimony	mg/l	NA	NA	NA	<0.0005	NA	NA	<0.0005	NA	NA	<0.0005	NA	<0.0005	<0.0005	<0.0005
726	Beryllium	mg/l	NA	NA	NA	<0.0005	NA	NA	<0.0005	NA	NA	<0.0005	NA	<0.0005	<0.0005	<0.0005
734	Thallium	mg/l	NA	NA	NA	<0.001	NA	NA	<0.001	NA	NA	<0.001	NA	<0.001	<0.001	<0.001
TEST	**QUARTERLY GRAB SAMPLES**	**UNIT**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Mean**	**Max**	**Min**
C15	Total Petroleum Hydrocarbons	µg/l	460	NA	NA	<500	NA	NA	740	NA	NA	560	NA	<565	740	460
408	Oil and Grease	mg/l	6.8	NA	NA	<4	NA	NA	5.9	NA	NA	<4	NA	<5	6.8	<4
602	Chloroform	µg/l	<0.5	NA	NA	<0.5	NA	NA	<0.5	NA	NA	<1	NA	<0.6	<1	<0.5
608	Bromodichloromethane	µg/l	<0.5	NA	NA	<0.5	NA	NA	<0.5	NA	NA	<1	NA	<0.6	<1	<0.5
609	Dibromochloromethane	µg/l	<0.5	NA	NA	<0.5	NA	NA	<0.5	NA	NA	<1	NA	<0.6	<1	<0.5
610	Bromoform	µg/l	<0.5	NA	NA	<0.5	NA	NA	<0.5	NA	NA	<1	NA	<0.6	<1	<0.5

NA - Not Analyzed

TABLE 3.10

PALMDALE WATER RECLAMATION PLANT

2004 EFFLUENT TO LAWA SITES (PONDS 2-7) ANNUAL DATA

TEST	ANNUAL MISCELLANEOUS PARAMETERS	UNIT	DECEMBER
206	Total Cyanides	µg/l	<5
312	Total Phenols	µg/l	<12
TEST	**ANNUAL ACID EXTRACTIBLES**	**UNIT**	**DECEMBER**
845	2-Chlorophenol	µg/l	<5
847	2,4-Dichlorophenol	µg/l	<5
848	2,4-Dimethylphenol	µg/l	<2
849	2,4-Dinitrophenol	µg/l	<5
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5
851	2-Nitrophenol	µg/l	<10
852	4-Nitrophenol	µg/l	<10
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1
854	Pentachlorophenol	µg/l	<1
855	Phenol	µg/l	<1
856	2,4,6-Trichlorophenol	µg/l	<10
TEST	**ANNUAL PESTICIDES & PCBs**	**UNIT**	**DECEMBER**
502	PP'-DDE	µg/l	<0.01
504	PP'-DDD	µg/l	<0.01
506	PP'-DDT	µg/l	<0.01
508	Alpha-BHC	µg/l	<0.01
509	Lindane (Gamma-BHC)	µg/l	<0.01
510	Heptachlor	µg/l	<0.01
511	Heptachlor Epoxide	µg/l	<0.01
512	Aldrin	µg/l	<0.01
513	Dieldrin	µg/l	<0.01
514	Endrin	µg/l	<0.01
515	Toxaphene	µg/l	<0.5
519	Aroclor 1242	µg/l	<0.1
520	Aroclor 1254	µg/l	<0.05
523	Beta-BHC	µg/l	<0.01
524	Delta-BHC	µg/l	<0.01
531	Endosulfan I	µg/l	<0.01
532	Endosulfan II	µg/l	<0.01
533	Endosulfan Sulfate	µg/l	<0.01
534	Endrin Aldehyde	µg/l	<0.04
535	Aroclor 1016	µg/l	<0.1
536	Aroclor 1221	µg/l	<0.3
537	Aroclor 1232	µg/l	<0.1
538	Aroclor 1248	µg/l	<0.1
539	Aroclor 1260	µg/l	<0.1
540	Technical Chlordane	µg/l	<0.05

TABLE 3.10

PALMDALE WATER RECLAMATION PLANT

2004 EFFLUENT TO LAWA SITES (PONDS 2-7) ANNUAL DATA

TEST	ANNUAL VOLATILE ORGANICS	UNIT	DECEMBER
601	Methylene Chloride	µg/l	<0.5
602	Chloroform	µg/l	<0.5
603	1,1,1-Trichloroethane	µg/l	<0.5
604	Carbon Tetrachloride	µg/l	<0.5
605	1,1-Dichloroethene	µg/l	<0.5
606	Trichloroethylene	µg/l	<0.5
607	Tetrachloroethylene	µg/l	<0.5
608	Bromodichloromethane	µg/l	<0.5
609	Dibromochloromethane	µg/l	<0.5
610	Bromoform	µg/l	<0.5
611	Chlorobenzene	µg/l	<0.5
612	Vinyl Chloride	µg/l	<0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5
616	1,1-Dichloroethane	µg/l	<0.5
618	1,1,2-Trichloroethane	µg/l	<0.5
619	1,2-Dichloroethane	µg/l	<0.5
620	Benzene	µg/l	<0.5
621	Toluene	µg/l	<0.5
624	Ethyl Benzene	µg/l	<0.5
645	Trans-1,2-Dichloroethylene	µg/l	<0.5
646	Bromomethane	µg/l	<0.5
647	Chloroethane	µg/l	<0.5
648	2-Chloroethylvinylether	µg/l	<0.5
649	Chloromethane	µg/l	<0.5
650	1,2-Dichloropropane	µg/l	<0.5
651	Cis-1,3-Dichloropropene	µg/l	<0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5
654	Acrolein	µg/l	<2
655	Acrylonitrile	µg/l	<2
662	Methyl Tertiary Butyl Ether	µg/l	<0.5

TABLE 3.10

PALMDALE WATER RECLAMATION PLANT

2004 EFFLUENT TO LAWA SITES (PONDS 2-7) ANNUAL DATA

TEST	ANNUAL BASE/NEUTRAL EXTRACTIBLES	UNIT	DECEMBER
800	Acenaphthene	µg/l	<1
801	Acenaphthylene	µg/l	<10
802	Anthracene	µg/l	<10
803	Benzidine	µg/l	<5
804	Benzoanthracene	µg/l	<5
805	Benzopyrene	µg/l	<0.06
806	Benzo(b)fluoranthene	µg/l	<0.06
807	1,12-Benzoperylene	µg/l	<5
808	Benzo(k)fluoranthene	µg/l	<0.06
809	Bis(2-chloroethoxy)methane	µg/l	<5
810	Bis(2-Chloroethyl)ether	µg/l	<1
811	Bis(2-chloroisopropyl)ether	µg/l	<2
812	Bis(2-diethylhexyl)phthalate	µg/l	<10
813	4-Bromophenyl Phenyl Ether	µg/l	<5
814	Butylbenzyl Phthalate	µg/l	<10
815	2-Chloronaphthalene	µg/l	<10
816	4-Chlorophenyl Phenyl Ether	µg/l	<5
817	Chrysene	µg/l	<0.06
818	1,2,5,6-Dibenzanthracene	µg/l	<0.06
819	1,2-Dichlorobenzene	µg/l	<2
820	1,3-Dichlorobenzene	µg/l	<1
821	1,4-Dichlorobenzene	µg/l	<1
822	3,3'-Dichlorobenzidine	µg/l	<5
823	Diethyl Phthalate	µg/l	<2
824	Dimethyl Phthalate	µg/l	<2
825	Di-n-Butyl Phthalate	µg/l	<10
826	2,4-Dinitrotoluene	µg/l	<5
827	2,6-Dinitrotoluene	µg/l	<5
828	Di-n-Octyl Phthalate	µg/l	<10
829	1,2-Diphenylhydrazine	µg/l	<1
830	Fluoranthene	µg/l	<1
831	Fluorene	µg/l	<10
832	Hexachlorobenzene	µg/l	<1
833	Hexachlorobutadiene	µg/l	<1
834	Hexachlorocyclopentadiene	µg/l	<5
835	Hexachloroethane	µg/l	<1
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.06
837	Isophorone	µg/l	<1
838	Naphthalene	µg/l	<1
839	Nitrobenzene	µg/l	<1
840	n-Nitrosodimethylamine	µg/l	<5
841	n-Nitrosodi-n-propylamine	µg/l	<5
842	Phenanthrene	µg/l	<5
843	Pyrene	µg/l	<10
844	2,3,7,8-TCDD	µg/l	<4.4
846	1,2,4-Trichlorobenzene	µg/l	<5
857	n-Nitrosodiphenylamine	µg/l	<1

PALMDALE WATER RECLAMATION PLANT

FIGURE 3.1 – 3.7

GRAPHICAL SUMMARIES

FIGURE 3.1
PALMDALE WATER RECLAMATION PLANT

2004 INFLUENT AND EFFLUENT FLOWS

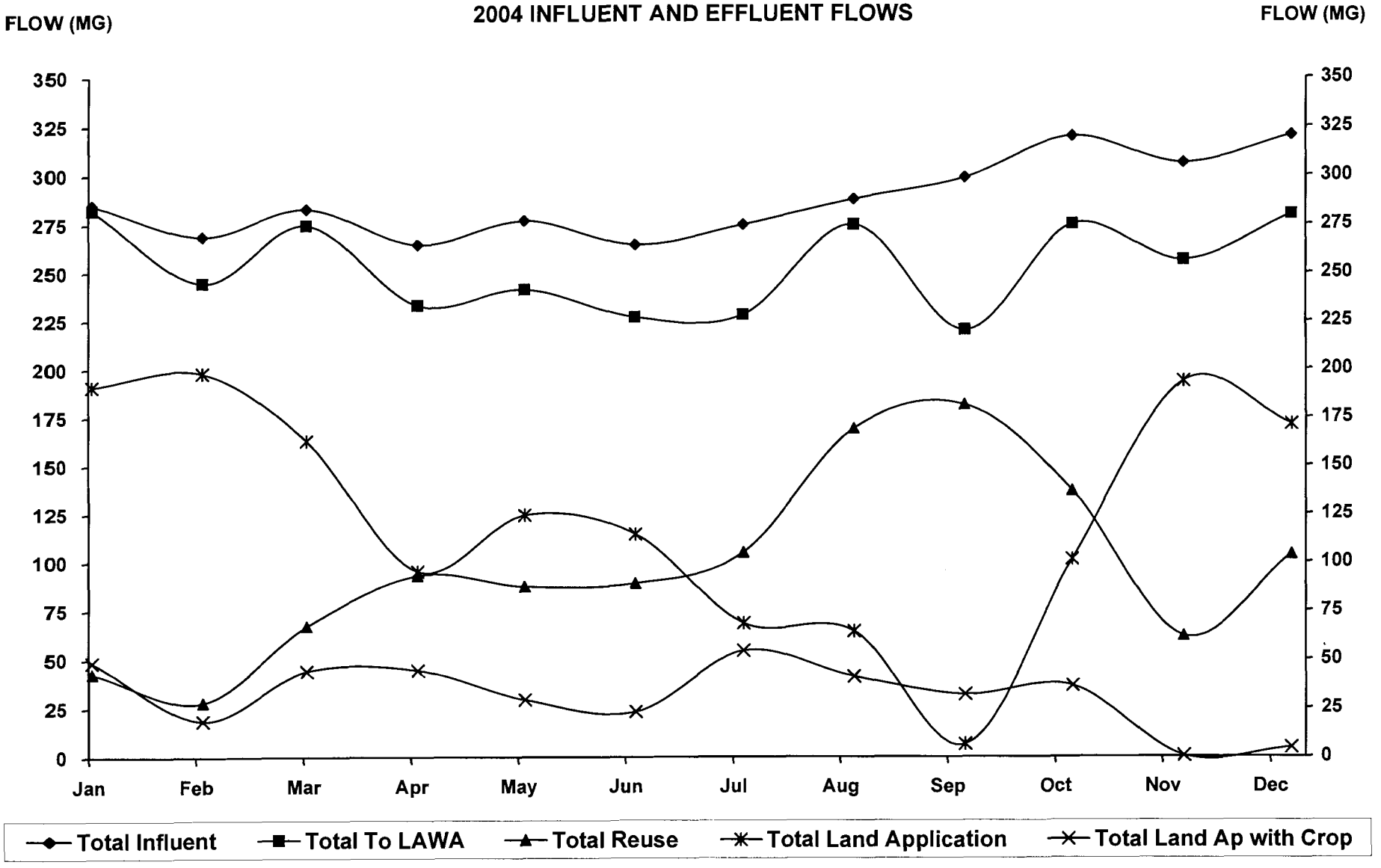


FIGURE 3.2
PALMDALE WATER RECLAMATION PLANT

2004 AVERAGE FREEBOARD

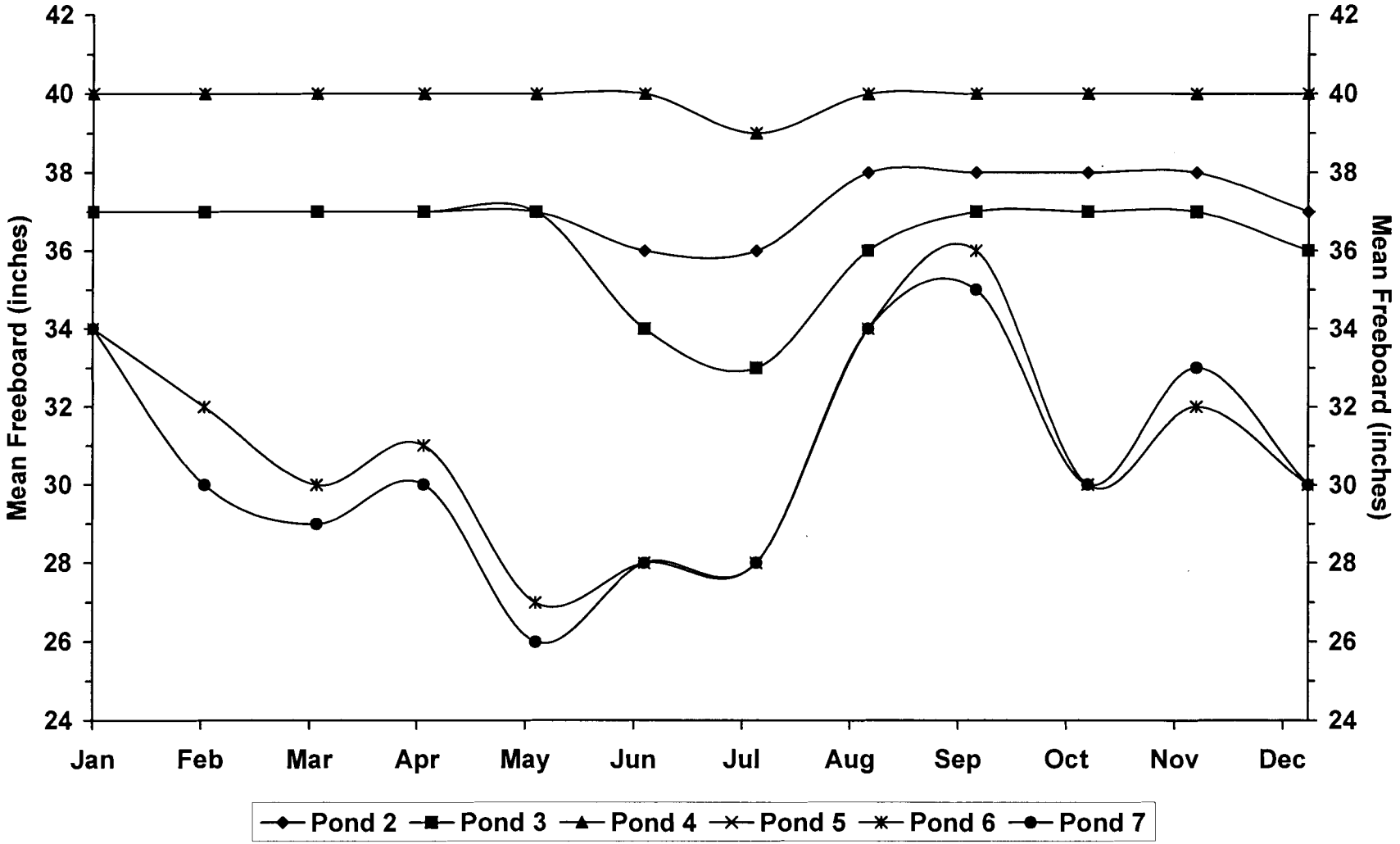


FIGURE 3.3
PALMDALE WATER RECLAMATION PLANT

2004 MINIMUM FREEBOARD

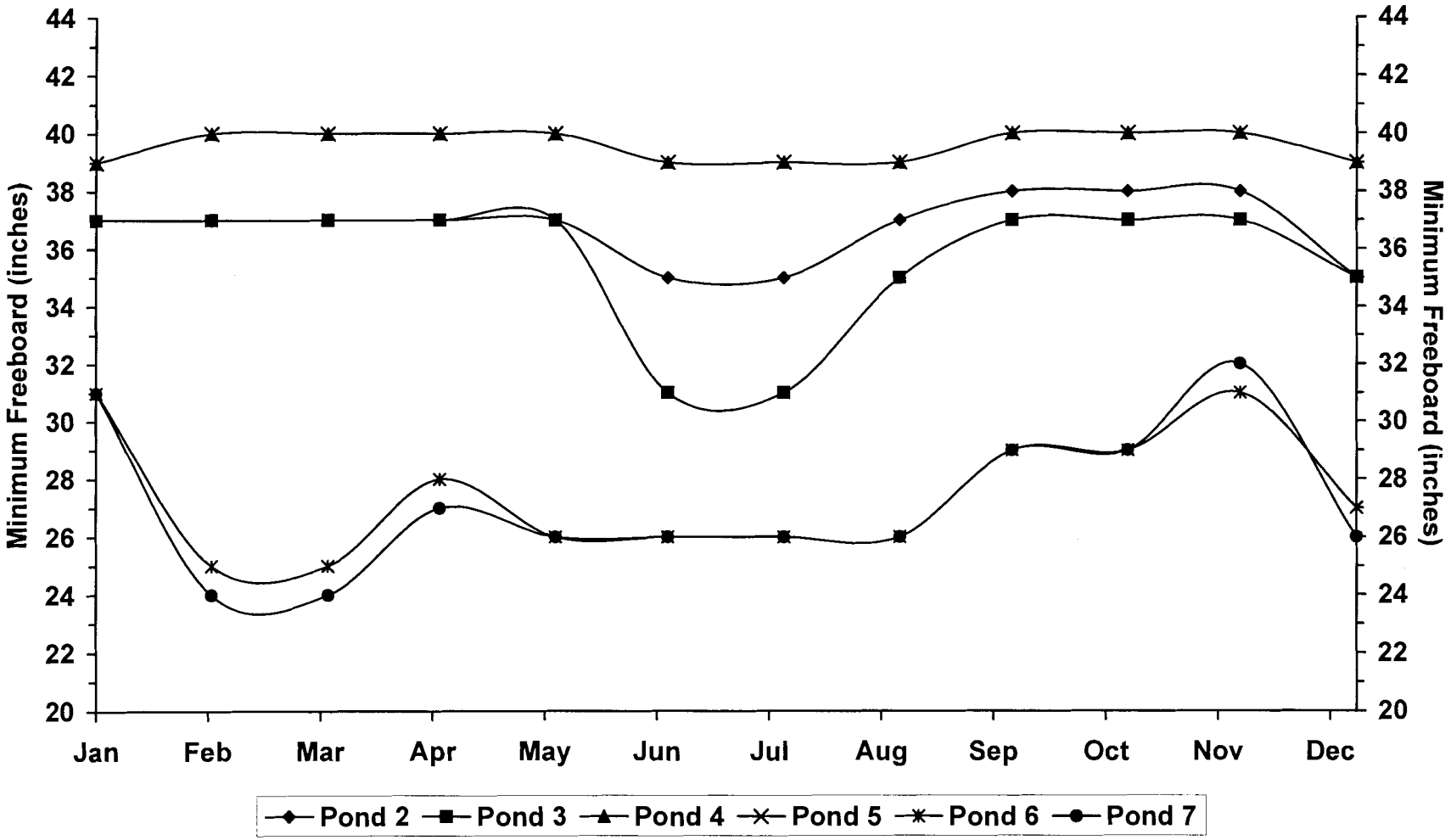


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 3.4
PALMDALE WATER RECLAMATION PLANT

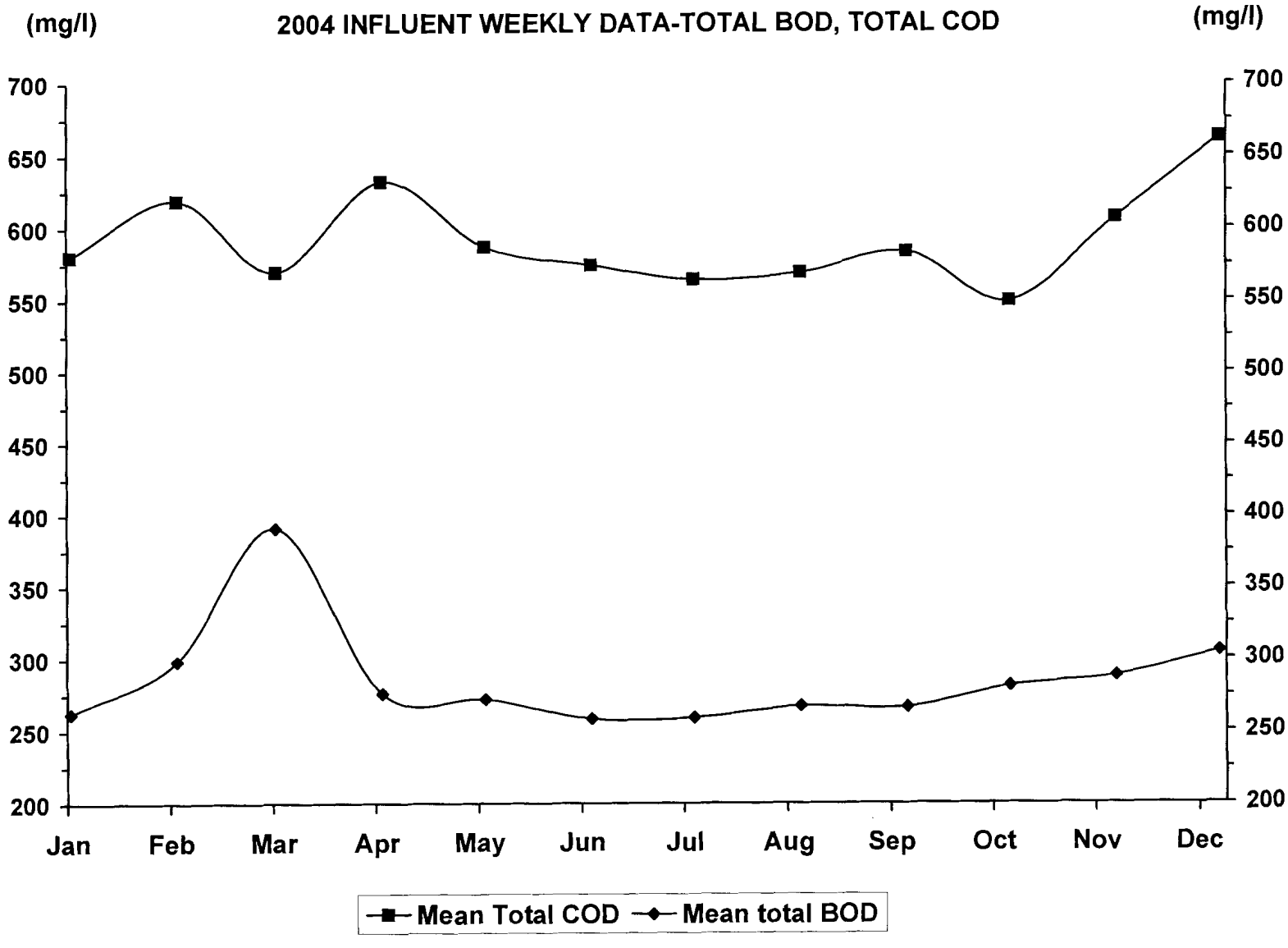


TABLE 3.5
PALMDALE WATER RECLAMATION PLANT

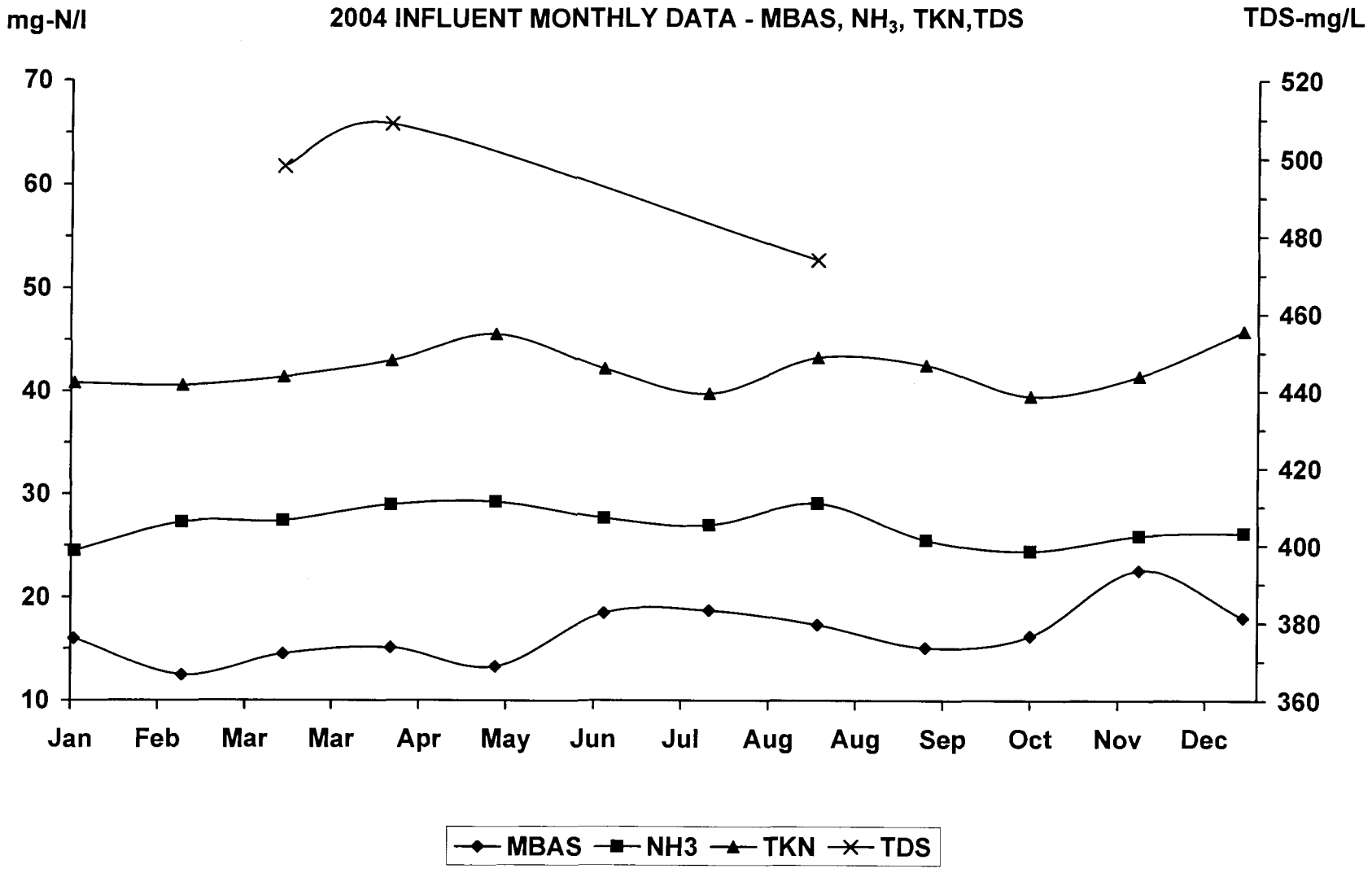


FIGURE 3.6
PALMDALE WATER RECLAMATION PLANT

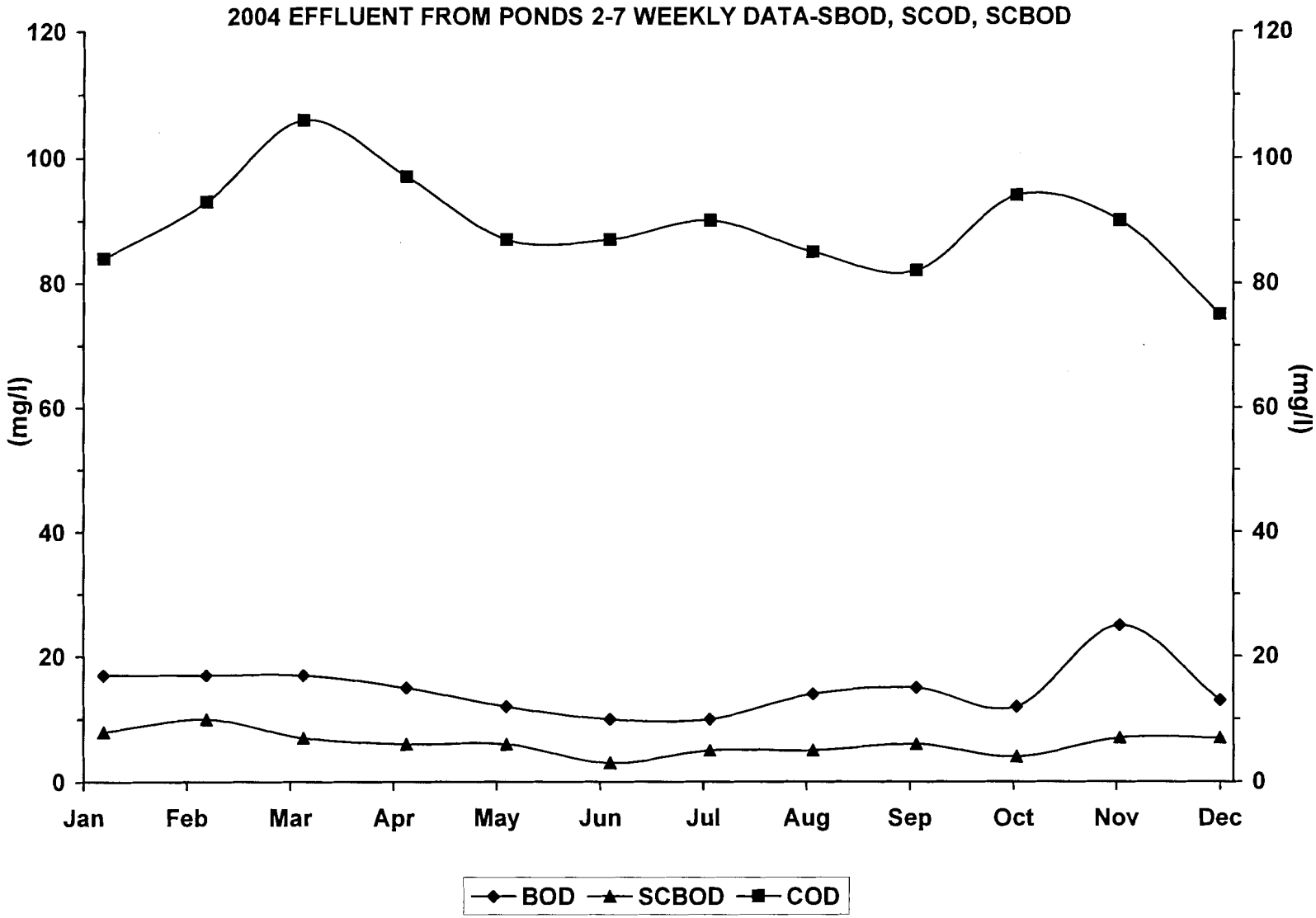
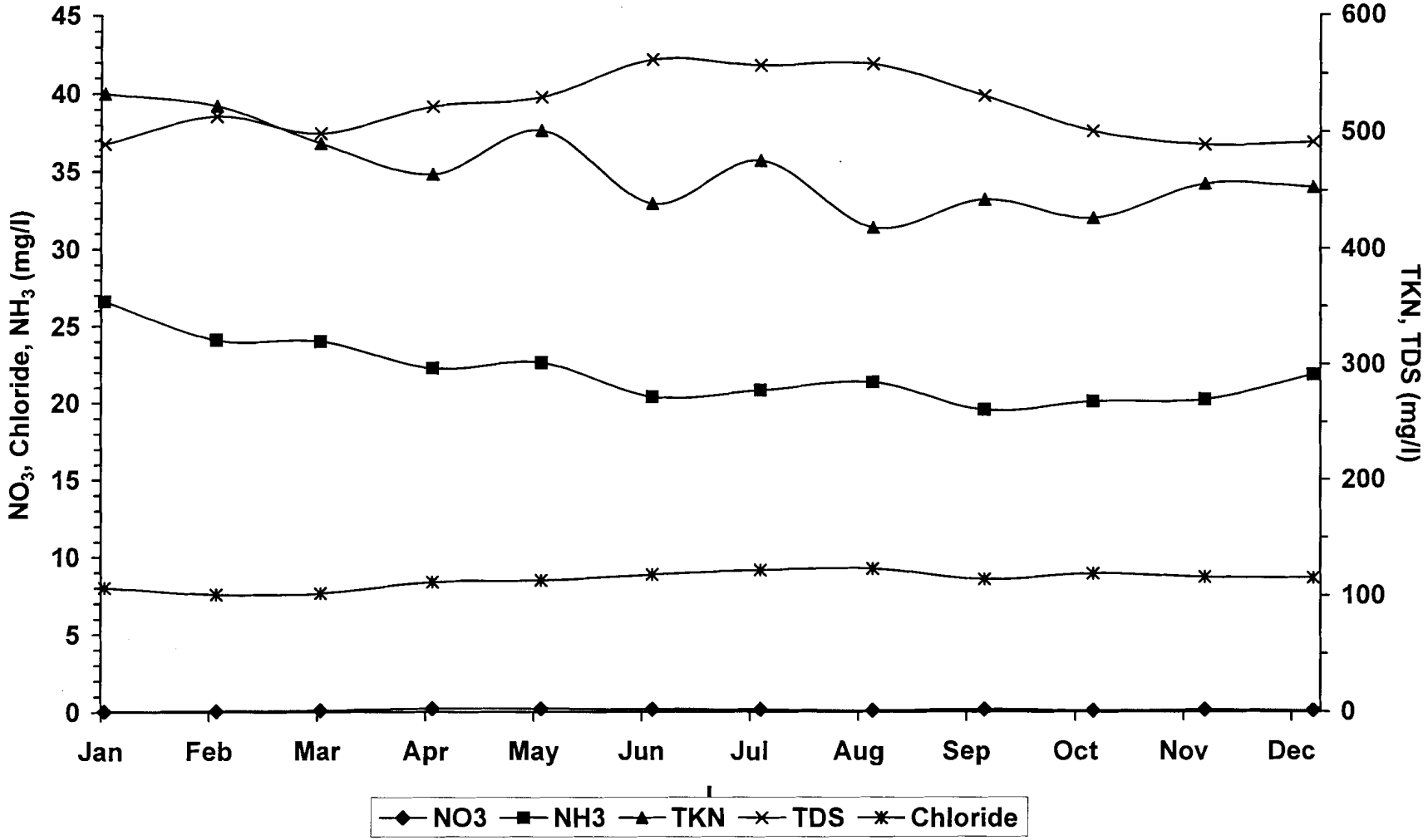


FIGURE 3.7
PALMDALE WATER RECLAMATION PLANT

2004 EFFLUENT FROM PONDS 2-7 MONTHLY DATA- TDS, CHLORIDE, NO_3^-, NH_3, TKN



PALMDALE WATER RECLAMATION PLANT

CHAPTER 4

GROUNDWATER AND LYSIMETER MONITORING DATA

CHAPTER 4

GROUNDWATER and LYSIMETER DATA

4.1 INTRODUCTION

This chapter contains water quality data for the monitoring and supply wells, and lysimeters at the Palmdale WRP EMS. The data are summarized in tables. Historical graphs of selected data are also presented in this chapter. All data are presented together with WDR limits. For the purpose of calculating annual averages, data that are collected during the same month are averaged first, and the average level for that month is entered in the calculation along with the data taken during the remainder of the year. In calculating averages, levels below the Minimum Detection Limit (MDL), or Reporting Minimum Limit (RML) are assumed to be equal to the MDL or RML, and not zero. Additional data for follow-up samples are presented for the month these were collected, or for the month where compliance was assessed.

The data summaries may contain results that were not reported in monthly monitoring reports. Additional data can result from sampling conducted for purposes other than routine monitoring. The additional sampling may have been performed by other agencies (i.e., WQCB), or by the District for a special study, or as a sampling follow-up to a questionable sample.

4.2 TABULAR AND GRAPHICAL SUMMARIES

Data are summarized in Tables 4.1 – 4.55. The Tables summarize and present the results for the month the samples were collected. Quarterly and Annual data are reported in separate Tables for each well. Annual data are separated into the following categories: miscellaneous parameters, metals, pesticides and PCBs, volatile organics, acid extractible organics and base/neutral extractible organics. The column with the header "LIMIT" contains primary or secondary standards from the California Code of Regulations Title 22.

Figure 4-1 shows the locations of the wells and lysimeters. Figure 4-2 shows the estimated groundwater elevation and groundwater flow direction. Historical, including 2004, data of selected parameters are summarized in Figures 4.3 – 4.74. Levels below the MDL or RML are presented as the numerical levels of the MDL or RML.

TABLE 4.1

2004 QUARTERLY DATA

SUPPLY WELL SW1

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	186	184	185	186	184	1000 [2]
201	Ammonia	mg-N/l	<0.01	< 0.1	< 0.1	< 0.1	< 0.01	
203	Kjeldahl Nitrogen	mg-N/l	0.3	< 0.2	<0.3	0.3	< 0.2	
204	Nitrate	mg-N/l	1.11	1.22	1.17	1.22	1.11	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	10 [3]
257	Sulfate	mg/l	13	16.4	15	16.4	13.0	500 [4]
301	Chloride	mg/l	7	9.1	8	9.1	7	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	NA	<500	<500	<500	
723	Sodium	mg/l	23	13.0	18	23	13.0	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.2

2004 ANNUAL DATA

SUPPLY WELL SW1

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<10	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	25.6	
704	Magnesium	mg/l	5.7	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.038	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.018	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.2

2004 ANNUAL DATA

SUPPLY WELL SW1

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	mg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	mg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.2

2004 ANNUAL DATA

SUPPLY WELL SW1

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000011	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.3

2004 QUARTERLY DATA

SUPPLY WELL SW2

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	AUGUST	NOVEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	306	320	250	310	297	320	250	1000 [2]
201	Ammonia	mg-N/l	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	5.23	5.45	5.21	5.53	5.36	5.53	5.21	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	40.5	43.6	39.7	41.3	41.3	43.6	39.7	500 [4]
301	Chloride	mg/l	39.2	38	35.4	37.9	37.6	39.2	35.4	500 [4]
315	MBAS	mg/l	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	< 500	670	<500	<543	670	<500	
723	Sodium	mg/l	28.9	22.5	28.2	28.9	27.1	28.9	22.5	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed
* - Incomplete

TABLE 4.4

2004 ANNUAL DATA

SUPPLY WELL SW2

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	mg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	55.5	
704	Magnesium	mg/l	11.0	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.084	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.0001	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.016	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.4

2004 ANNUAL DATA

SUPPLY WELL SW2

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.4

2004 ANNUAL DATA

SUPPLY WELL SW2

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.000001	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.5

2004 QUARTERLY DATA

SUPPLY WELL SW5

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	SEPTEMBER	NOVEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	358	214	363	339	319	363.0	214	1000 [2]
201	Ammonia	mg-N/l	<0.01	0.1	<0.1	<0.1	<0.08	0.1	<0.01	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	3.98	4.35	4.58	4.64	4.39	4.64	3.98	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	48	51.4	50.7	51.2	50	51.4	48	500 [4]
301	Chloride	mg/l	64.3	63.7	62.9	63.9	63.7	64.3	62.9	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	NA	<500	500	<500	500	<500	
723	Sodium	mg/l	44.8	31	41.2	28.4	36.4	44.8	28.4	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.6

2004 ANNUAL DATA

SUPPLY WELL SW5

TEST	ANNUAL MRP PARAMETERS	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<10	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	57.7	
704	Magnesium	mg/l	11.6	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.091	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.119	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	0.0012	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.423	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.6

2004 ANNUAL DATA

SUPPLY WELL SW5

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.6

2004 ANNUAL DATA

SUPPLY WELL SW5

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.00000086	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.6

2004 QUARTERLY DATA

SUPPLY WELL SW7

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	SEPTEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	mmhos/cm	NA	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	238	236	271	248	271	236	1000 [2]
201	Ammonia	mg-N/l	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	3.34	3.01	3.68	3.34	3.68	3.01	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	30.5	43.1	31.4	35.0	43.1	30.5	500 [4]
301	Chloride	mg/l	23.4	21.3	26.1	23.6	26.1	21.3	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	mg/l	<500	550	<500	517	550	<500	
723	Sodium	mg/l	21.8	15.3	23.1	20.1	23.1	15.3	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.7

2004 ANNUAL DATA

SUPPLY WELL SW7

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<12	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	42.4	
704	Magnesium	mg/l	9.3	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.066	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.669	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	0.005	0.05
717	Mercury	mg/l	<0.0001	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	<0.01	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.7

2004 ANNUAL DATA

SUPPLY WELL SW7

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	mg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.7

2004 ANNUAL DATA

SUPPLY WELL SW7

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.00000099	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.9

2004 QUARTERLY DATA

SUPPLY WELL SW8

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	AUGUST	NOVEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	224	238	320	202	246	320	202	1000 [2]
201	Ammonia	mg-N/l	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	2.41	2.73	2.45	1.51	2.28	2.73	1.51	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	30.2	32.3	28.6	24.8	29.0	32.3	24.8	500 [4]
301	Chloride	mg/l	18.5	20.2	19.2	14	18	20.2	14	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	<500	<500	<500	<500	<500	<500	
723	Sodium	mg/l	23.5	17.6	22.2	21.4	21.2	23.5	17.6	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.10

2004 ANNUAL DATA

SUPPLY WELL SW8

TEST	ANNUAL MRP PARAMETERS	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<12	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	38.8	
704	Magnesium	mg/l	7.6	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.056	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.0001	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.012	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.10

2004 ANNUAL DATA

SUPPLY WELL SW8

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.10

2004 ANNUAL DATA

SUPPLY WELL SW8

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000011	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.11

2004 QUARTERLY DATA

SUPPLY WELL SW9

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	229	375	302	375	229	1000 [2]
201	Ammonia	mg-N/l	<0.01	< 0.1	<0.06	< 0.1	<0.01	
203	Kjeldahl Nitrogen	mg-N/l	0.4	< 0.2	<0.3	0.4	< 0.2	
204	Nitrate	mg-N/l	2.58	2.86	2.72	2.86	2.58	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	10 [3]
257	Sulfate	mg/l	21	25.3	23	25.3	21	500 [4]
301	Chloride	mg/l	17.8	17.3	17.6	17.8	17.3	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	520	<510	520	<500	
723	Sodium	mg/l	26.2	12.9	19.6	26.2	12.9	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.12

2004 ANNUAL DATA

SUPPLY WELL SW9

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<10	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	41.3	
704	Magnesium	mg/l	8.5	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.053	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.015	5
725	Antimony	mg/l	0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.12

2004 ANNUAL DATA

SUPPLY WELL SW9

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.12

2004 ANNUAL DATA

SUPPLY WELL SW9

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.89	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.13

2004 QUARTERLY DATA

SUPPLY WELL SW10

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	AUGUST	SEPTEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	716	696	NA	714	709	716	696	1000 [2]
201	Ammonia	mg-N/l	<0.01	< 0.1	NA	<0.1	<0.06	< 0.1	<0.01	
203	Kjeldahl Nitrogen	mg-N/l	0.6	< 0.2	NA	<0.2	<0.3	0.6	< 0.2	
204	Nitrate	mg-N/l	13.3	13.1	NA	12.9	13.1	13.3	12.9	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	NA	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	114	92.7	NA	90.2	99.0	114	90.2	500 [4]
301	Chloride	mg/l	119	113.9	NA	105	113	119	105	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	750	NA	920	920	863	920	750	
723	Sodium	mg/l	45.9	36.0	NA	42	41	45.9	36.0	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.14

2004 ANNUAL DATA

SUPPLY WELL SW10

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<10	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	145	
704	Magnesium	mg/l	32.6	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.211	1
707	Aluminum	mg/l	0.11	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	0.015	1
713	Iron	mg/l	0.316	0.3
714	Lead	mg/l	0.003	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.061	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.14

2004 ANNUAL DATA

SUPPLY WELL SW10

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.14

2004 ANNUAL DATA

SUPPLY WELL SW10

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.00000079	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.15

2004 QUARTERLY DATA

SUPPLY WELL SW13

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	Average	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	188	228	208	228	188	1000 [2]
201	Ammonia	mg-N/l	<0.01	< 0.1	< 0.1	< 0.1	< 0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	
204	Nitrate	mg-N/l	2.4	2.93	2.7	2.93	2.4	10 [3]
205	Nitrite	mg-N/l	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	10 [3]
257	Sulfate	mg/l	22	49.5	36	49.5	22	500 [4]
301	Chloride	mg/l	15.6	41.7	28.7	41.7	15.6	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	<500	<500	<500	<500	
723	Sodium	mg/l	24	11.2	18	24	11.2	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.16

2004 ANNUAL DATA

SUPPLY WELL SW13

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<13	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	36.3	
704	Magnesium	mg/l	7.2	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.051	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	0.012	1
713	Iron	mg/l	0.091	0.3
714	Lead	mg/l	0.003	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.02	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.16

2004 ANNUAL DATA

SUPPLY WELL SW13

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.16

2004 ANNUAL DATA

SUPPLY WELL SW13

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.00000071	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.17

2004 QUARTERLY DATA

SUPPLY WELL SWH2

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	SEPTEMBER	OCTOBER	DECEMBER	Mean	Max	Min	LIMIT
1S1	pH	0-14	NA	NA	NA	NA	NA	NA	NA	NA	
1S2	Temperature	°C	NA	NA	NA	NA	NA	NA	NA	NA	
1S3	Dissolved Oxygen	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	
1S4	Electrical Conductivity	µmhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	1600 [1]
900	Depth to Groundwater	ft	NA	NA	NA	NA	NA	NA	NA	NA	
155	Total Dissolved Solids	mg/l	121	154	154	NA	123	138	154	121	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	0.34	<0.2	NA	<0.2	<0.2	0.34	<0.2	
204	Nitrate	mg-N/l	0.87	0.64	0.58	NA	0.62	0.68	0.87	0.58	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	16.1	16.1	16.4	15.9	16.8	16.3	16.8	15.9	500 [4]
301	Chloride	mg/l	8.8	8.3	7.7	7.6	7.9	8.1	8.8	7.6	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	<500	<500	NA	<500	<500	<500	<500	
723	Sodium	mg/l	29.9	33.2	24.9	NA	37.7	31.4	37.7	24.9	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.18

2004 ANNUAL DATA

SUPPLY WELL SWH2

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	22.6	
704	Magnesium	mg/l	1.3	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.023	1
707	Aluminum	mg/l	0.06	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.012	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.18

2004 ANNUAL DATA

SUPPLY WELL SWH2

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	

TABLE 4.18

2004 ANNUAL DATA

SUPPLY WELL SWH2

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000047	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.19

2004 QUARTERLY DATA

MONITORING WELL MW2

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	JULY	SEPTEMBER	NOVEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	8.56	7.99	NA	8.93	7.96	8.36	8.93	7.96	
1S2	Temperature	°C	21.69	20.19	NA	19.6	19.1	20.1	21.69	19.05	
1S3	Dissolved Oxygen	mg/l	3.66	0.32	NA	0.85	7.05	3.0	7.05	0.32	
1S4	Electrical Conductivity	µmhos/cm	201	214	NA	189	193	199	214	189	1600 [1]
900	Depth to Groundwater	ft	504.35	510.74	507.65	510.08	506.66	507.90	510.74	504.35	
155	Total Dissolved Solids	mg/l	154	136	NA	118	125	133	154	118	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	0.8	NA	<0.2	<0.2	<0.4	0.8	<0.2	
204	Nitrate	mg-N/l	0.37	0.32	NA	<0.04	0.36	<0.3	0.37	<0.04	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	26	16.8	NA	4.6	16.5	16	26	4.6	500 [4]
301	Chloride	mg/l	2.5	4	NA	3.8	4.2	4	4.2	2.5	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	2500	NA	830	710	<500	<1135	2500	<500	
723	Sodium	mg/l	36.9	32.4	NA	33.3	39.8	35.6	39.8	32.4	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.20

2004 ANNUAL DATA

MONITORING WELL MW2

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	140	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	14.5	
704	Magnesium	mg/l	1.6	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.025	1
707	Aluminum	mg/l	1.99	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	0.015	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	1.55	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	0.035	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.032	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	0.027	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.20

2004 ANNUAL DATA

MONITORING WELL MW2

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.20

2004 ANNUAL DATA

MONITORING WELL MW2

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.00000077	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.21

2004 QUARTERLY DATA

MONITORING WELL MW4

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	MAY	JUNE	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.48	NA	7.43	7.53	7.29	7.43	7.53	7.43	
1S2	Temperature	°C	18.25	NA	17.68	18.25	14.3	17.11	18.25	14.3	
1S3	Dissolved Oxygen	mg/l	4.26	NA	2.52	6.73	8.53	5.51	8.53	4.26	
1S4	Electrical Conductivity	mmhos/cm	1099	NA	444	1040	989	893	1099	444	1600 [1]
900	Depth to Groundwater	ft	269.87	271.9	272.5	NA	269.85	271.0	272.5	269.85	
155	Total Dissolved Solids	mg/l	586	NA	626	637	664	628	664	586	1000 [2]
201	Ammonia	mg-N/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	NA	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	10.7	NA	7.57	11.2	5.51	8.75	11.2	5.51	10 [3]
205	Nitrite	mg-N/l	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	66	NA	74.8	73.6	37.1	63	74.8	37.1	500 [4]
301	Chloride	mg/l	107	NA	105	105	51.7	92.2	107	51.7	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	mg/l	760	NA	1260	1130	1070	1055	1260	760	
723	Sodium	mg/l	68.4	NA	65.7	63.8	68.5	66.6	68.5	63.8	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.22

2004 ANNUAL DATA

MONITORING WELL MW4

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	119	
704	Magnesium	mg/l	27.3	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.187	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	<0.01	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.22

2004 ANNUAL DATA

MONITORING WELL MW4

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.22

2004 ANNUAL DATA

MONITORING WELL MW4

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000011	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.23

2004 QUARTERLY DATA

MONITORING WELL MW15

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	JULY	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.37	7.78	NA	7.79	7.56	7.63	7.79	7.37	
1S2	Temperature	°C	17.29	17.04	NA	16.25	17.2	16.94	17.19	16.3	
1S3	Dissolved Oxygen	mg/l	2.74	2.65	NA	3.8	8.73	4.48	8.73	2.65	
1S4	Electrical Conductivity	µmhos/cm	379	356	NA	309.8	483	382	483	309.8	1600 [1]
900	Depth to Groundwater	ft	310	316.84	316.84	NA	315.20	315	316.84	310	
155	Total Dissolved Solids	mg/l	218	246	NA	243	301	252	301	218	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	<0.1	NA	<0.2	0.84	<0.3	0.84	<0.1	
204	Nitrate	mg-N/l	4.77	4.52	NA	3.73	8.88	5.48	8.88	3.73	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	23.5	22	NA	21.5	29.9	24	29.9	21.5	500 [4]
301	Chloride	mg/l	31.6	37.2	NA	39.4	60.2	42.1	60.2	31.6	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	560	NA	2700	2600	650	1628	2700	560	
723	Sodium	mg/l	19.4	13.3	NA	20.7	23.3	19.2	23.3	13.3	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.24

2004 ANNUAL DATA

MONITORING WELL MW15

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	42.2	
704	Magnesium	mg/l	9.2	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.059	1
707	Aluminum	mg/l	0.46	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	0.011	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.401	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	0.007	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.017	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.24

2004 ANNUAL DATA

MONITORING WELL MW15

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.24

2004 ANNUAL DATA

MONITORING WELL MW15

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000032	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.25

2004 QUARTERLY DATA

MONITORING WELL MW16

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	JULY	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.64	8.38	NA	7.93	7.77	7.93	8.38	7.64	
1S2	Temperature	°C	16.54	16.35	NA	16.12	16.8	16.5	16.81	16.1	
1S3	Dissolved Oxygen	mg/l	2.7	2.02	NA	2.8	8.38	4.0	8.38	2.02	
1S4	Electrical Conductivity	mmhos/cm	223.3	191	NA	201	229	211	223.3	191	1600 [1]
900	Depth to Groundwater	ft	310.03	312.84	312.84	NA	315.36	312.74	315.36	310	
155	Total Dissolved Solids	mg/l	113	142	NA	142	116	128	142	113	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	NA	<0.1	1	<0.3	1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	<0.2	NA	<0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	1.03	0.72	NA	0.53	1.28	0.89	1.28	0.53	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	15.5	15.6	NA	15.6	15.5	15.6	15.6	15.5	500 [4]
301	Chloride	mg/l	6.11	4.7	NA	4	5.5	5	6	4	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	NA	970	1840	<500	<953	1840	<500	
723	Sodium	mg/l	16.9	10.1	NA	17.1	18.5	15.7	18.5	10.1	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.26

2004 ANNUAL DATA

MONITORING WELL MW16

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<50	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	24.5	
704	Magnesium	mg/l	5.8	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.04	1
707	Aluminum	mg/l	0.79	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.65	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	0.011	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.02	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.26

2004 ANNUAL DATA

MONITORING WELL MW16

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.26

2004 ANNUAL DATA

MONITORING WELL MW16

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000026	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.27

2004 QUARTERLY DATA

MONITORING WELL MW18

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	JULY	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.88	7.85	NA	7.57	7.87	7.79	7.88	7.57	
1S2	Temperature	°C	19.34	18.54	NA	17.14	15.9	17.72	19.34	15.9	
1S3	Dissolved Oxygen	mg/l	3.37	2.89	NA	0.79	8	4	8	0.79	
1S4	Electrical Conductivity	µmhos/cm	681.1	572	NA	568	589	603	681.1	568	1600 [1]
900	Depth to Groundwater	ft	318.65	321.95	321.95	NA	325.19	321.94	325.19	318.65	
155	Total Dissolved Solids	mg/l	405	369	NA	361	338	368	405	338	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.02	<0.2	NA	<0.2	0.39	<0.2	0.39	<0.02	
204	Nitrate	mg-N/l	8.87	6.08	NA	4.27	6.02	6.31	8.87	4.27	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	69.4	59.9	NA	63.1	65.8	64.6	69.4	59.9	500 [4]
301	Chloride	mg/l	53	44.5	NA	43.9	45.2	47	53	43.9	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	560	NA	1680	4610	710	1890	4610	560	
723	Sodium	mg/l	30.6	23.3	NA	29.6	24.3	27.0	30.6	23.3	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.28

2004 ANNUAL DATA

MONITORING WELL MW18

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<12	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	83.4	
704	Magnesium	mg/l	17.4	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.124	1
707	Aluminum	mg/l	0.09	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	0.011	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.143	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.018	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.28

2004 ANNUAL DATA

MONITORING WELL MW18

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.28

2004 ANNUAL DATA

MONITORING WELL MW18

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000031	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.29

2004 QUARTERLY DATA

MONITORING WELL MW20

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	8.56	7.58	8.01	7.46	7.90	8.56	7.46	
1S2	Temperature	°C	21.69	19.11	19.04	16.4	19.05	21.69	16.4	
1S3	Dissolved Oxygen	mg/l	3.66	3.16	7.02	8.4	5.6	8.4	3.16	
1S4	Electrical Conductivity	µmhos/cm	201	1093	1019	992	826	1093	201	1600 [1]
900	Depth to Groundwater	ft	265.6	265.9	265.6	264.83	265.5	265.9	264.83	
155	Total Dissolved Solids	mg/l	632	717	654	682	671	717	632	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	13.5	11.6	12.9	14.20	13.1	14.20	11.6	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	63	79.1	77.4	79.4	75	79.4	63	500 [4]
301	Chloride	mg/l	120	116	116	110	116	120	110	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	670	1240	1070	950	983	1070	670	
723	Sodium	mg/l	44.5	44.1	38.6	45	43	45	38.6	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.30

2004 ANNUAL DATA

MONITORING WELL MW20

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	129	
704	Magnesium	mg/l	28.6	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.18	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.01	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.30

2004 ANNUAL DATA

MONITORING WELL MW20

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.30

2004 ANNUAL DATA

MONITORING WELL MW20

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.00000086	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.31

2004 QUARTERLY DATA

MONITORING WELL MW21

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	AUGUST	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.49	7.00	NA	7.82	7.64	7.49	7.82	7.00	
1S2	Temperature	°C	17.19	17.17	NA	16.9	15.78	16.76	17.19	15.78	
1S3	Dissolved Oxygen	mg/l	3.22	3.43	NA	2.99	7.6	4.31	7.6	2.99	
1S4	Electrical Conductivity	µmhos/cm	500	568.1	NA	528	460	514	568.1	460	1600 [1]
900	Depth to Groundwater	ft	316.09	321.93	321.93	NA	322.16	320.53	322.16	316.09	
155	Total Dissolved Solids	mg/l	286	348	NA	334	278	312	348	278	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	<0.2	NA	<0.2	0.34	<0.2	0.34	<0.2	
204	Nitrate	mg-N/l	8.57	9.33	NA	8.08	7.13	8.28	9.33	7.13	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	43.3	48.9	NA	49.3	38.2	44.9	49.3	38.2	500 [4]
301	Chloride	mg/l	35.1	48	NA	39.8	29.6	38	48	29.6	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	NA	890	1450	540	<845	1450	<500	
723	Sodium	mg/l	23.3	18.9	NA	19.9	17.2	19.8	23.3	17.2	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.32

2004 ANNUAL DATA

MONITORING WELL MW21

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<12	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	58.8	
704	Magnesium	mg/l	12.3	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.078	1
707	Aluminum	mg/l	0.09	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.117	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.015	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.1	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.32

2004 ANNUAL DATA

MONITORING WELL MW21

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.32

2004 ANNUAL DATA

MONITORING WELL MW21

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000028	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

TABLE 4.33

2004 QUARTERLY DATA

MONITORING WELL MW22

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	MAY	JUNE	SEPTEMBER	OCTOBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	6.95	NA	7.57	7.70	NA	7.30	7.38	7.70	6.95	
1S2	Temperature	°C	19.27	NA	19.11	18.82	NA	17.96	18.79	19.27	17.96	
1S3	Dissolved Oxygen	mg/l	3.71	NA	5.03	3.27	NA	9.31	5.33	9.31	3.27	
1S4	Electrical Conductivity	µmhos/cm	908.7	NA	872	830	NA	885	874	908.7	830	1600 [1]
900	Depth to Groundwater	ft	294.35	295.10	295.33	NA	NA	296.30	295.27	296.30	294.35	
155	Total Dissolved Solids	mg/l	551	NA	590	539	NA	501	545	590	501	1000 [2]
201	Ammonia	mg-N/l	<0.1	NA	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	NA	<0.2	<0.2	NA	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	9.87	NA	9.51	9.94	NA	3.05	8.09	9.94	3.05	10 [3]
205	Nitrite	mg-N/l	<0.02	NA	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	84.7	NA	72.8	72.1	NA	75.7	76.3	84.7	72.1	500 [4]
301	Chloride	mg/l	94.2	NA	91.6	89.1	NA	93.1	92.0	94.2	89.1	500 [4]
315	MBAS	mg/l	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	580	NA	NA	810	890	1100	845	1100	580	
723	Sodium	mg/l	34.6	NA	29.3	35.0	NA	34.4	33.3	35.0	29.3	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.34

2004 ANNUAL DATA

MONITORING WELL MW22

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	46	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	106	
704	Magnesium	mg/l	21	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.183	1
707	Aluminum	mg/l	0.52	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.496	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	0.008	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.016	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.34

2004 ANNUAL DATA

MONITORING WELL MW22

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.34

2004 ANNUAL DATA

MONITORING WELL MW22

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000026	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.35

2004 QUARTERLY DATA

MONITORING WELL MW23

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	SEPTEMBER	OCTOBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	8.18	8.41	7.55	NA	7.73	7.97	8.41	7.55	
1S2	Temperature	°C	20.40	20.57	20.45	NA	17.46	19.72	20.57	17.46	
1S3	Dissolved Oxygen	mg/l	2.58	2.65	3.51	NA	7.61	4.09	7.61	2.58	
1S4	Electrical Conductivity	µmhos/cm	417	423	404	NA	401	411	423	401	1600 [1]
900	Depth to Groundwater	ft	312.24	310.25	NA	NA	312.91	311.80	312.91	310.25	
155	Total Dissolved Solids	mg/l	261	256	228	NA	234	245	261	228	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	0.3	<0.2	NA	<0.2	<0.2	0.3	<0.2	
204	Nitrate	mg-N/l	4.16	3.64	4.02	NA	3.33	2.53	4.16	3.33	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	NA	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	38.1	33.70	34.1	NA	31.5	34.4	38.1	31.5	500 [4]
301	Chloride	mg/l	36.6	40.9	40.9	NA	37.6	39.0	40.9	36.6	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	NA	520	510	<500	508	520	<500	
723	Sodium	mg/l	29.4	24.0	25.6	NA	23.6	25.7	29.4	23.6	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.36

2004 ANNUAL DATA

MONITORING WELL MW23

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<12	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	45	
704	Magnesium	mg/l	5.3	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.052	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.015	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.1	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.36

2004 ANNUAL DATA

MONITORING WELL MW23

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.36

2004 ANNUAL DATA

MONITORING WELL MW23

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000043	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.37

2004 QUARTERLY DATA

MONITORING WELL MW24

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	MAY	JUNE	JULY	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	8.07	NA	7.60	NA	7.94	7.81	7.86	8.07	7.60	
1S2	Temperature	°C	19.05	NA	19.07	NA	18.78	16.43	18.33	19.07	16.43	
1S3	Dissolved Oxygen	mg/l	2.39	NA	2.15	NA	2.99	9.21	4.19	9.21	2.15	
1S4	Electrical Conductivity	µmhos/cm	257	NA	262	NA	244	273	259.00	273	244	1600 [1]
900	Depth to Groundwater	ft	313.74	314.62	315.11	315.11	NA	319.15	315.55	319.15	313.74	
155	Total Dissolved Solids	mg/l	165	NA	177	NA	170	159	168	177	159	1000 [2]
201	Ammonia	mg-N/l	<0.1	NA	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	NA	<0.2	NA	<0.2	1.12	0.4	1.12	<0.2	
204	Nitrate	mg-N/l	0.90	NA	0.90	NA	0.65	1.00	0.86	1.00	0.65	10 [3]
205	Nitrite	mg-N/l	<0.02	NA	<0.02	NA	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	30.0	NA	27.1	NA	26.5	27.8	27.9	30.0	26.5	500 [4]
301	Chloride	mg/l	5	NA	7.2	NA	6.9	8.1	7	8.1	5	500 [4]
315	MBAS	mg/l	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	560	NA	NA	<500	1410	<500	<743	1410	<500	
723	Sodium	mg/l	19.0	NA	12.6	NA	19.9	21.4	18.2	21.4	12.6	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

TABLE 4.38

2004 ANNUAL DATA

MONITORING WELL MW24

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<50	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	27.3	
704	Magnesium	mg/l	6.6	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.042	1
707	Aluminum	mg/l	0.31	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.303	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.013	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.1	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.38

2004 ANNUAL DATA

MONITORING WELL MW24

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.38

2004 ANNUAL DATA

MONITORING WELL MW24

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000049	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.39

2004 QUARTERLY DATA

MONITORING WELL MW25

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	SEPTEMBER	OCTOBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.69	8.18	7.75	N/A	7.87	8.18	7.69	
1S2	Temperature	°C	22.25	22.29	20.85	N/A	21.80	22.29	20.85	
1S3	Dissolved Oxygen	mg/l	2.65	2.21	2.70	N/A	2.52	2.70	2.21	
1S4	Electrical Conductivity	µmhos/cm	457.4	451	323	N/A	410	457.4	323	1600 [1]
900	Depth to Groundwater	ft	330.79	331.12	331.35	N/A	331.09	330.79	331.12	
155	Total Dissolved Solids	mg/l	275	278	262	N/A	272	278	262	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	N/A	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	0.2	<0.2	N/A	<0.2	0.2	<0.2	
204	Nitrate	mg-N/l	6.68	5.88	4.92	N/A	5.83	6.68	4.92	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	N/A	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	33.5	30.4	28.7	N/A	30.9	33.5	28.7	500 [4]
301	Chloride	mg/l	34.1	32.2	29.7	N/A	32.0	34.1	29.7	500 [4]
315	MBAS	mg/l	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	1100	NA	3680	620	1800	3680	620	
723	Sodium	mg/l	40.6	34.3	40.9	N/A	38.6	40.9	34.3	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.40

2004 ANNUAL DATA

MONITORING WELL MW25

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	41	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	45.8	
704	Magnesium	mg/l	6.2	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.055	1
707	Aluminum	mg/l	0.18	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.169	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.016	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.1	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.40

2004 ANNUAL DATA

MONITORING WELL MW25

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	0.6	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.40

2004 ANNUAL DATA

MONITORING WELL MW25

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000033	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.41

2004 QUARTERLY DATA

MONITORING WELL MW26

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.31	7.32	7.44	7.51	7.40	7.51	7.31	
1S2	Temperature	°C	17.51	18.44	17.55	17.25	17.69	18.44	17.25	
1S3	Dissolved Oxygen	mg/l	2.33	4.39	3.19	6.30	4.05	6.30	2.33	
1S4	Electrical Conductivity	µmhos/cm	414.2	1107	465	314	575	1107	314	1600 [1]
900	Depth to Groundwater	ft	315.45	320.40	NA	320.42	318.76	320.42	315.45	
155	Total Dissolved Solids	mg/l	224	258	280	277	260	280	224	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	<0.2	<0.2	0.28	<0.2	0.28	<0.2	
204	Nitrate	mg-N/l	6.01	5.51	6.32	6.24	6.02	6.32	5.51	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	37.9	34.6	39.2	36.1	37.0	39.2	34.6	500 [4]
301	Chloride	mg/l	27.0	31.7	36.8	32.3	32.0	36.8	27.0	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	510	870	780	600	690	870	510	
723	Sodium	mg/l	22.2	19.4	20.4	17.9	20.0	22.2	17.9	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.42

2004 ANNUAL DATA

MONITORING WELL MW26

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	45.9	
704	Magnesium	mg/l	9.3	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.064	1
707	Aluminum	mg/l	0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	<0.05	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.015	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.1	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.42

2004 ANNUAL DATA

MONITORING WELL MW26

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.42

2004 ANNUAL DATA

MONITORING WELL MW26

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.000003	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.43

2004 QUARTERLY DATA

MONITORING WELL MW27

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	SEPTEMBER	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.52	7.49	7.76	7.57	7.59	7.76	7.49	
1S2	Temperature	°C	17.55	17.53	17.53	17.52	17.53	17.55	17.52	
1S3	Dissolved Oxygen	mg/l	3.01	2.98	1.59	8.51	4.02	8.51	1.59	
1S4	Electrical Conductivity	µmhos/cm	292.8	298	310	454	339	454	292.8	1600 [1]
900	Depth to Groundwater	ft	315.20	321.20	NA	321.14	319.18	321.20	315.20	
155	Total Dissolved Solids	mg/l	174	191	195	195	189	195	174	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	<0.2	<0.2	0.42	<0.3	0.42	<0.2	
204	Nitrate	mg-N/l	2.19	1.76	2.73	1.47	2.04	2.73	1.76	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	25.9	21.6	25.6	24.9	24.5	25.9	21.6	500 [4]
301	Chloride	mg/l	12.2	11.7	15.4	12.7	13.0	15.4	11.7	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	1470	580	570	<780	1470	<500	
723	Sodium	mg/l	20.3	14.8	17.3	15.7	17.0	20.3	14.8	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.44

2004 ANNUAL DATA

MONITORING WELL MW27

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<12	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	32.7	
704	Magnesium	mg/l	6.7	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.047	1
707	Aluminum	mg/l	0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.057	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	0.008	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	0.0012	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.021	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.1	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.44

2004 ANNUAL DATA

MONITORING WELL MW27

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.44

2004 ANNUAL DATA

MONITORING WELL MW27

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000026	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.45

2004 QUARTERLY DATA

MONITORING WELL MW28

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	JUNE	SEPTEMBER	NOVEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	8.21	7.56	7.97	7.18	7.73	8.21	7.18	
1S2	Temperature	°C	18.97	20.04	18.87	18.90	19.20	20.04	18.87	
1S3	Dissolved Oxygen	mg/l	4.43	1.32	3.90	4.04	3.42	4.43	1.32	
1S4	Electrical Conductivity	mmhos/cm	456.6	488	385	465	449	488	385	1600 [1]
900	Depth to Groundwater	ft	312.45	337.90	NA	309.32	319.89	337.90	309.32	
155	Total Dissolved Solids	mg/l	271	294	322	334	305	334	271	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
204	Nitrate	mg-N/l	5.49	5.56	6.82	9.99	6.97	9.99	5.49	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.2	<0.02	<0.02	<0.07	<0.2	<0.02	10 [3]
257	Sulfate	mg/l	45.5	44.8	43.6	46.4	45.1	46.4	43.6	500 [4]
301	Chloride	mg/l	43	45.0	44.5	47.5	45	47.5	43	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	mg/l	520	670	620	650	615	670	520	
723	Sodium	mg/l	31.5	31.6	32.6	20.4	29.0	32.6	20.4	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.46

2004 ANNUAL DATA

MONITORING WELL MW28

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<50	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	50.4	
704	Magnesium	mg/l	5.5	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.056	1
707	Aluminum	mg/l	<0.05	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.057	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	<0.005	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.019	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.46

2004 ANNUAL DATA

MONITORING WELL MW28

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.46

2004 ANNUAL DATA

MONITORING WELL MW28

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	2.4	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000032	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.47

2004 QUARTERLY DATA

MONITORING WELL MW29

TEST	QUARTERLY MRP PARAMETERS	UNIT	MARCH	APRIL	Average	Max	Min	LIMIT
1S1	pH	0-14	7.69	8.38	8.04	8.38	7.69	
1S2	Temperature	°C	21.01	21.20	21.11	21.20	21.01	
1S3	Dissolved Oxygen	mg/l	2.91	1.05	1.98	2.91	1.05	
1S4	Electrical Conductivity	µmhos/cm	206	195	201	206	195	1600 [1]
900	Depth to Groundwater	ft	310.25	317.70	313.98	317.70	310.25	
155	Total Dissolved Solids	mg/l	125	159	142	159	125	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	1.1	<0.2	<0.7	1.1	<0.2	
204	Nitrate	mg-N/l	0.42	0.37	0.40	0.42	0.37	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	17.7	17.3	17.5	17.7	17.3	500 [4]
301	Chloride	mg/l	1.0	4.4	2.7	4.4	1.0	500 [4]
315	MBAS	mg/l	<0.1	NA	NA	NA	NA	0.50
405	Total Organic Carbon	µg/l	<500	NA	NA	NA	NA	
723	Sodium	mg/l	26.6	16.9	21.8	26.6	16.9	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.48

2004 ANNUAL DATA

MONITORING WELL MW29

TEST	ANNUAL MRP PARAMETERS (MISCELLANEOUS)	UNIT	MARCH	LIMIT
C15	Total Petroleum Hydrocarbons	µg/l	<60	
206	Total Cyanides	µg/l	<5	200
312	Total Phenols	µg/l	<11	
TEST	**ANNUAL MRP PARAMETERS (METALS)**	**UNIT**	**MARCH**	**LIMIT**
703	Calcium	mg/l	19	
704	Magnesium	mg/l	1.7	
705	Arsenic	mg/l	<0.001	0.05
706	Barium	mg/l	0.027	1
707	Aluminum	mg/l	0.15	1
708	Cadmium	mg/l	<0.0004	0.005
709	Total Chromium	mg/l	<0.01	0.05
711	Cobalt	mg/l	<0.01	
712	Copper	mg/l	<0.008	1
713	Iron	mg/l	0.16	0.3
714	Lead	mg/l	<0.002	
716	Manganese	mg/l	0.016	0.05
717	Mercury	mg/l	<0.00004	0.002
718	Nickel	mg/l	<0.02	0.1
719	Potassium	mg/l	<10	
720	Selenium	mg/l	<0.001	0.05
722	Silver	mg/l	<0.0002	0.1
724	Zinc	mg/l	0.013	5
725	Antimony	mg/l	<0.0005	0.006
726	Beryllium	mg/l	<0.0005	0.004
732	Molybdenum	mg/l	<0.04	
734	Thallium	mg/l	<0.001	0.002
737	Vanadium	mg/l	<0.02	
TEST	**ANNUAL MRP PARAMETERS (PESTICIDES & PCBs)**	**UNIT**	**MARCH**	**LIMIT**
502	PP'-DDE	µg/l	<0.01	
504	PP'-DDD	µg/l	<0.01	
506	PP'-DDT	µg/l	<0.01	
508	Alpha-BHC	µg/l	<0.01	
509	Lindane (Gamma-BHC)	µg/l	<0.01	0.2
510	Heptachlor	µg/l	<0.01	0.01
511	Heptachlor Epoxide	µg/l	<0.01	0.01
512	Aldrin	µg/l	<0.01	
513	Dieldrin	µg/l	<0.01	
514	Endrin	µg/l	<0.01	2
515	Toxaphene	µg/l	<0.5	3
519	Aroclor 1242	µg/l	<0.1	
520	Aroclor 1254	µg/l	<0.05	
523	Beta-BHC	µg/l	<0.01	
524	Delta-BHC	µg/l	<0.01	
531	Endosulfan I	µg/l	<0.01	
532	Endosulfan II	µg/l	<0.01	
533	Endosulfan Sulfate	µg/l	<0.01	
534	Endrin Aldehyde	µg/l	<0.01	
535	Aroclor 1016	µg/l	<0.1	0.5
536	Aroclor 1221	µg/l	<0.1	0.5
537	Aroclor 1232	µg/l	<0.1	0.5
538	Aroclor 1248	µg/l	<0.1	0.5
539	Aroclor 1260	µg/l	<0.1	0.5
540	Technical Chlordane	µg/l	<0.05	0.1

TABLE 4.48

2004 ANNUAL DATA

MONITORING WELL MW29

TEST	ANNUAL MRP PARAMETERS (VOLATILE ORGANICS)	UNIT	MARCH	LIMIT
601	Methylene Chloride	µg/l	<0.5	
602	Chloroform	µg/l	<0.5	
603	1,1,1-Trichloroethane	µg/l	<0.5	200
604	Carbon Tetrachloride	µg/l	<0.5	0.5
605	1,1-Dichloroethene	µg/l	<0.5	6
606	Trichloroethylene	µg/l	<0.5	5
607	Tetrachloroethylene	µg/l	<0.5	5
608	Bromodichloromethane	µg/l	<0.5	
609	Dibromochloromethane	µg/l	<0.5	
610	Bromoform	µg/l	<0.5	
611	Chlorobenzene	µg/l	<0.5	70
612	Vinyl Chloride	µg/l	<0.5	0.5
613	o-Dichlorobenzene (1,2-Dichlorobenzene)	µg/l	<0.5	600
614	m-Dichlorobenzene (1,3-Dichlorobenzene)	µg/l	<0.5	
615	p-Dichlorobenzene (1,4-Dichlorobenzene)	µg/l	<0.5	5
616	1,1-Dichloroethane	µg/l	<0.5	5
618	1,1,2-Trichloroethane	µg/l	<0.5	5
619	1,2-Dichloroethane	µg/l	<0.5	0.5
620	Benzene	µg/l	<0.5	1
621	Toluene	µg/l	<0.5	150
624	Ethyl Benzene	µg/l	<0.5	700
645	Trans-1,2-Dichloroethylene	µg/l	<0.5	10
646	Bromomethane	µg/l	<0.5	
647	Chloroethane	µg/l	<0.5	
648	2-Chloroethylvinylether	µg/l	<0.5	
649	Chloromethane	µg/l	<0.5	
650	1,2-Dichloropropane	µg/l	<0.5	5
651	Cis-1,3-Dichloropropene	µg/l	<0.5	0.5
652	Trans-1,3-Dichloropropene	µg/l	<0.5	0.5
653	1,1,2,2-Tetrachloroethane	µg/l	<0.5	1
654	Acrolein	µg/l	<2	
655	Acrylonitrile	µg/l	<2	
662	Methyl Tertiary Butyl Ether	µg/l	<0.5	
TEST	**ANNUAL MRP PARAMETERS (ACID EXTRACTIBLES)**	**UNIT**	**MARCH**	**LIMIT**
845	2-Chlorophenol	µg/l	<5	
847	2,4-Dichlorophenol	µg/l	<5	
848	2,4-Dimethylphenol	µg/l	<2	
849	2,4-Dinitrophenol	µg/l	<5	
850	2-Methyl-4,6-Dinitrophenol (p-Chloro-m-Cresol)	µg/l	<5	
851	2-Nitrophenol	µg/l	<10	
852	4-Nitrophenol	µg/l	<10	
853	4-Chloro-3-Methylphenol (4,6-Dinitro-o-Cresol)	µg/l	<1	
854	Pentachlorophenol	µg/l	<5	1
855	Phenol	µg/l	<1	
856	2,4,6-Trichlorophenol	µg/l	<10	

TABLE 4.48

2004 ANNUAL DATA

MONITORING WELL MW29

TEST	ANNUAL MRP PARAMETERS (BASE/NEUTRAL EXTRACTIBLES)	UNIT	MARCH	LIMIT
800	Acenaphthene	µg/l	<1	
801	Acenaphthylene	µg/l	<10	
802	Anthracene	µg/l	<10	
803	Benzidine	µg/l	<5	
804	Benzoanthracene	µg/l	<5	
805	Benzopyrene	µg/l	<0.02	0.2
806	Benzo(b)fluoranthene	µg/l	<0.02	
807	1,12-Benzoperylene	µg/l	<5	
808	Benzo(k)fluoranthene	µg/l	<0.02	
809	Bis(2-chloroethoxy)methane	µg/l	<5	
810	Bis(2-Chloroethyl)ether	µg/l	<1	
811	Bis(2-chloroisopropyl)ether	µg/l	<2	
812	Bis(2-diethylhexyl)phthalate	µg/l	<2	4
813	4-Bromophenyl Phenyl Ether	µg/l	<5	
814	Butylbenzyl Phthalate	µg/l	<10	
815	2-Chloronaphthalene	µg/l	<10	
816	4-Chlorophenyl Phenyl Ether	µg/l	<5	
817	Chrysene	µg/l	<0.02	
818	1,2,5,6-Dibenzanthracene	µg/l	<0.02	
819	1,2-Dichlorobenzene	µg/l	<2	
820	1,3-Dichlorobenzene	µg/l	<1	
821	1,4-Dichlorobenzene	µg/l	<1	
822	3,3'-Dichlorobenzidine	µg/l	<5	
823	Diethyl Phthalate	µg/l	<2	
824	Dimethyl Phthalate	µg/l	<2	
825	Di-n-Butyl Phthalate	µg/l	<10	
826	2,4-Dinitrotoluene	µg/l	<5	
827	2,6-Dinitrotoluene	µg/l	<5	
828	Di-n-Octyl Phthalate	µg/l	<10	
829	1,2-Diphenylhydrazine	µg/l	<1	
830	Fluoranthene	µg/l	<1	
831	Fluorene	µg/l	<10	
832	Hexachlorobenzene	µg/l	<1	1
833	Hexachlorobutadiene	µg/l	<1	
834	Hexachlorocyclopentadiene	µg/l	<5	50
835	Hexachloroethane	µg/l	<1	
836	Indeno(1,2,3-c,d)pyrene	µg/l	<0.02	
837	Isophorone	µg/l	<1	
838	Naphthalene	µg/l	<1	
839	Nitrobenzene	µg/l	<1	
840	n-Nitrosodimethylamine	µg/l	<5	
841	n-Nitrosodi-n-propylamine	µg/l	<5	
842	Phenanthrene	µg/l	<5	
843	Pyrene	µg/l	<10	
844	2,3,7,8-TCDD	µg/l	<0.0000037	0.00003
846	1,2,4-Trichlorobenzene	µg/l	<5	70
857	n-Nitrosodiphenylamine	µg/l	<1	

TABLE 4.49
2004 QUARTERLY DATA
MONITORING WELL MW32

TEST	QUARTERLY MRP PARAMETERS	UNIT	DECEMBER	LIMIT
1S1	pH	0-14	7.69	
1S2	Temperature	°C	20.24	
1S3	Dissolved Oxygen	mg/l	7.74	
1S4	Electrical Conductivity	µmhos/cm	239	1600 [1]
900	Depth to Groundwater	ft	376.45	
155	Total Dissolved Solids	mg/l	127	1000 [2]
201	Ammonia	mg-N/l	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	
204	Nitrate	mg-N/l	0.44	10 [3]
205	Nitrite	mg-N/l	<0.02	10 [3]
257	Sulfate	mg/l	15.8	500 [4]
301	Chloride	mg/l	8.8	500 [4]
315	MBAS	mg/l	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	
723	Sodium	mg/l	37.8	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.50

2004 QUARTERLY DATA

MONITORING WELL MW33

TEST	QUARTERLY MRP PARAMETERS	UNIT	DECEMBER	LIMIT
1S1	pH	0-14	7.58	
1S2	Temperature	°C	18.95	
1S3	Dissolved Oxygen	mg/l	10.41	
1S4	Electrical Conductivity	µmhos/cm	663	1600 [1]
900	Depth to Groundwater	ft	340.14	
155	Total Dissolved Solids	mg/l	397	1000 [2]
201	Ammonia	mg-N/l	1.50	
203	Kjeldahl Nitrogen	mg-N/l	1.40	
204	Nitrate	mg-N/l	6.08	10 [3]
205	Nitrite	mg-N/l	<0.02	10 [3]
257	Sulfate	mg/l	54.2	500 [4]
301	Chloride	mg/l	82.4	500 [4]
315	MBAS	mg/l	<0.1	0.50
405	Total Organic Carbon	µg/l	950	
723	Sodium	mg/l	36.50	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.51

2004 QUARTERLY DATA

MONITORING WELL MW35

TEST	QUARTERLY MRP PARAMETERS	UNIT	DECEMBER	LIMIT
1S1	pH	0-14	7.73	
1S2	Temperature	°C	16.62	
1S3	Dissolved Oxygen	mg/l	10.21	
1S4	Electrical Conductivity	µmhos/cm	527	1600 [1]
900	Depth to Groundwater	ft	310.52	
155	Total Dissolved Solids	mg/l	300	1000 [2]
201	Ammonia	mg-N/l	1.13	
203	Kjeldahl Nitrogen	mg-N/l	0.84	
204	Nitrate	mg-N/l	2.59	10 [3]
205	Nitrite	mg-N/l	<0.02	10 [3]
257	Sulfate	mg/l	84.4	500 [4]
301	Chloride	mg/l	27.9	500 [4]
315	MBAS	mg/l	<0.1	0.50
405	Total Organic Carbon	µg/l	790	
723	Sodium	mg/l	30.1	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.52

2004 QUARTERLY DATA

MONITORING WELL MW37

TEST	QUARTERLY MRP PARAMETERS	UNIT	DECEMBER	LIMIT
1S1	pH	0-14	8.02	
1S2	Temperature	°C	17.87	
1S3	Dissolved Oxygen	mg/l	9.47	
1S4	Electrical Conductivity	µmhos/cm	279	1600 [1]
900	Depth to Groundwater	ft	332.56	
155	Total Dissolved Solids	mg/l	170	1000 [2]
201	Ammonia	mg-N/l	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	
204	Nitrate	mg-N/l	2.93	10 [3]
205	Nitrite	mg-N/l	<0.02	10 [3]
257	Sulfate	mg/l	20.8	500 [4]
301	Chloride	mg/l	10.9	500 [4]
315	MBAS	mg/l	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	
723	Sodium	mg/l	18.6	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.53

2004 QUARTERLY DATA

MONITORING WELL MW38

TEST	QUARTERLY MRP PARAMETERS	UNIT	JUNE	DECEMBER	Average	Max	Min	LIMIT
1S1	pH	0-14	7.84	7.93	7.89	7.93	7.84	
1S2	Temperature	°C	18.25	16.68	17.47	18.25	16.68	
1S3	Dissolved Oxygen	mg/l	7.76	8.24	8.00	8.24	7.76	
1S4	Electrical Conductivity	µmhos/cm	258	251	255	258	251	1600 [1]
900	Depth to Groundwater	ft	287.15	289.69	288.42	289.69	287.15	
155	Total Dissolved Solids	mg/l	143	134	139	143	134	1000 [2]
201	Ammonia	mg-N/l	<0.1	<0.1	<0.1	<0.1	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	0.28	<0.2	0.28	<0.2	
204	Nitrate	mg-N/l	0.64	5.31	2.98	5.31	0.64	10 [3]
205	Nitrite	mg-N/l	<0.02	<0.02	<0.02	<0.02	<0.02	10 [3]
257	Sulfate	mg/l	17.0	18.3	17.7	18.3	17.0	500 [4]
301	Chloride	mg/l	6.0	6.3	6.2	6.3	6.0	500 [4]
315	MBAS	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.50
405	Total Organic Carbon	µg/l	530	<500	<515	530	<500	
723	Sodium	mg/l	11.2	12.7	12.0	12.7	11.2	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.54

2004 QUARTERLY DATA

MONITORING WELL MW39

TEST	QUARTERLY MRP PARAMETERS	UNIT	JUNE	LIMIT
1S1	pH	0-14	7.74	
1S2	Temperature	°C	19.66	
1S3	Dissolved Oxygen	mg/l	8.21	
1S4	Electrical Conductivity	µmhos/cm	320	1600 [1]
900	Depth to Groundwater	ft	320.96	
155	Total Dissolved Solids	mg/l	186	1000 [2]
201	Ammonia	mg-N/l	<0.1	
203	Kjeldahl Nitrogen	mg-N/l	<0.2	
204	Nitrate	mg-N/l	1.5	10 [3]
205	Nitrite	mg-N/l	<0.02	10 [3]
257	Sulfate	mg/l	29.5	500 [4]
301	Chloride	mg/l	8.1	500 [4]
315	MBAS	mg/l	<0.1	0.50
405	Total Organic Carbon	µg/l	<500	
723	Sodium	mg/l	13.3	

[1] 900 recommended / 1600 upper / 2200 short term
[2] 500 recommended / 1000 upper / 1500 short term
[3] Nitrate+Nitrite = 10
[4] 250 recommended / 500 upper / 600 short term
NA - Not Analyzed

TABLE 4.55

PALMDALE WATER RECLAMATION PLANT

2004 LYSIMETER MONITORING DATA

TEST	CONSTITUENT	UNIT	LYSIMETER LY1		LYSIMETER LY3			LYSIMETER LY4			LYSIMETER LY6	LYSIMETER LY16
			FIRST QUARTER	SECOND QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	SECOND QUARTER	SECOND QUARTER
155	Total Dissolved Solids	mg/l	NA	1684	1535	NA	NA	949	NA	NA	985	NA
201	Ammonia	mg-N/l	NA	<0.1	<0.1	NA	<0.1	NA	NA	<0.1	NA	<0.1
203	Kjeldahl Nitrogen	mg-N/l	NA	1.12	2.24	NA	<0.2	NA	NA	<0.2	<0.2	1.68
204	Nitrate	mg-N/l	NA	37.7	35.1	NA	71	46.1	NA	NA	26.8	36.7
205	Nitrite	mg-N/l	NA	<0.02	<0.02	NA	<0.02	< 0.02	NA	NA	< 0.02	<0.02
257	Sulfate	mg/l	NA	498	332	NA	NA	NA	NA	32.1	169	140
301	Chloride	mg/l	NA	259.0	210.8	NA	NA	NA	NA	206	163.7	158.7
315	MBAS	mg/l	NA	< 0.1	< 0.1	NA	NA	NA	NA	NA	NA	NA
723	Sodium	mg/l	NA	248	NA	86.2	NA	NA	NA	NA	170	NA

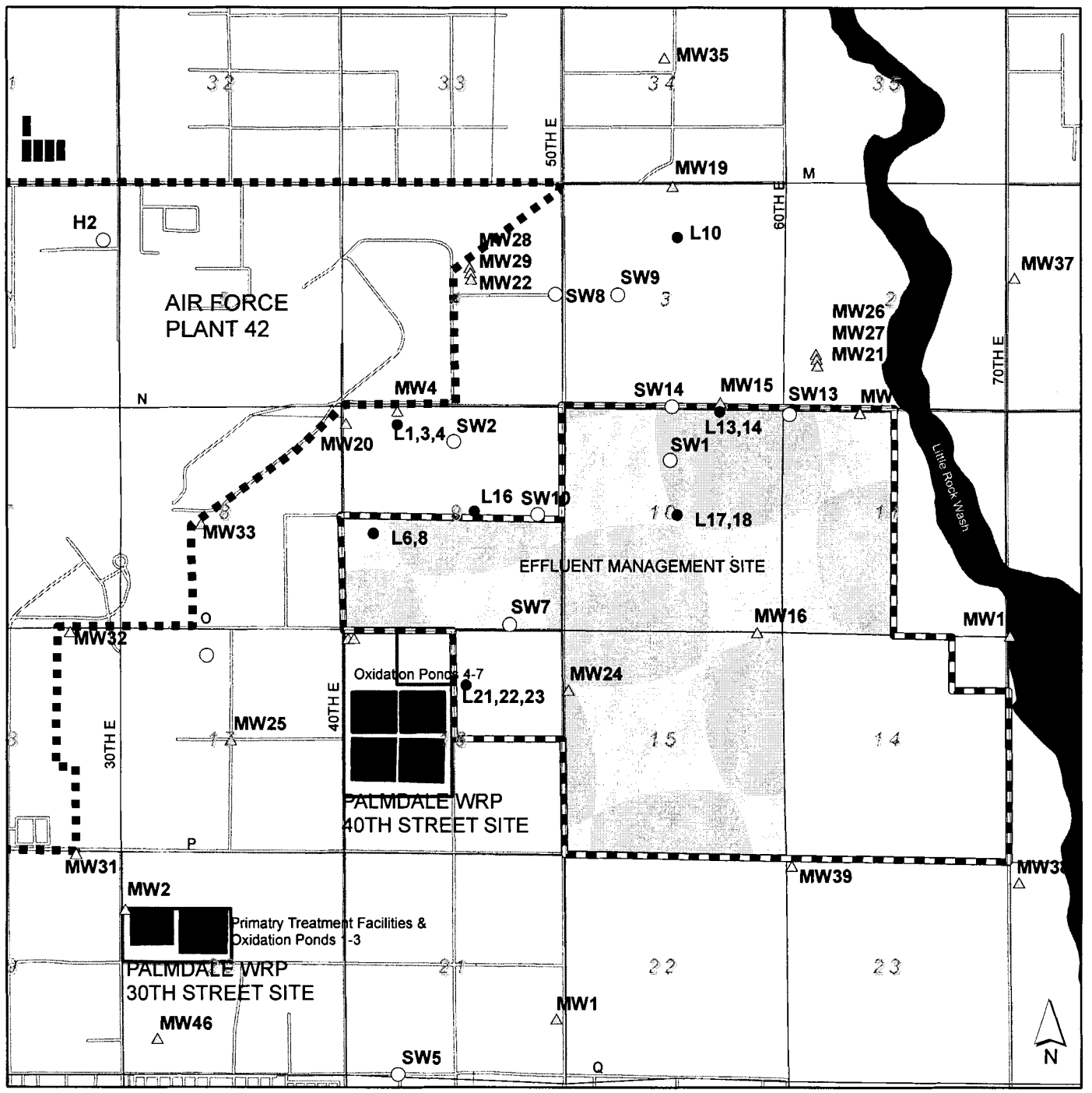
NA - Not Analyzed

PALMDALE WATER RECLAMATION PLANT

FIGURE 4.1

SITE MAP

FIGURE 4.1
PALMDALE WATER RECLAMATION PLANT
Effluent Management Site, Wells and Lysimeters



- ● Lysimeter
- ○ Supply Well
- △ Monitoring Well
- Lease Area from Los Angeles World Airports (LAWA)
- Authorized EMS
- ▪ ▪ ▪ ▪ Air Force Plant 42

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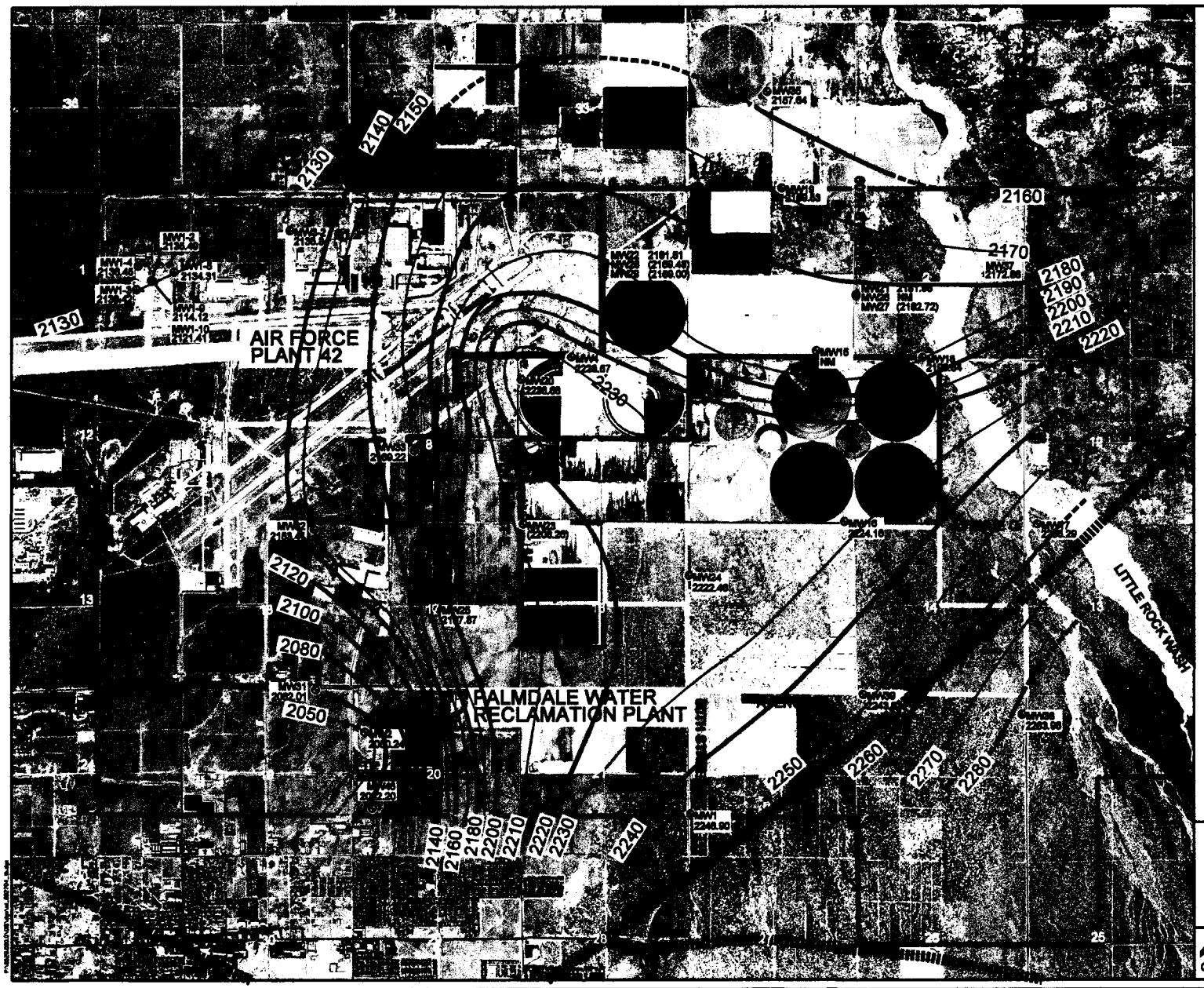
PALMDALE WATER RECLAMATION PLANT

FIGURE 4.2

ESTIMATED FLOW DIRECTIONS



EXPLANATION

- MW15 ⊕ LOCATION AND DESIGNATION OF MONITORING WELL
- EFFLUENT MANAGEMENT SITE
- NEW AND PROPOSED EFFLUENT MANAGEMENT SITE
- AIR FORCE PLANT 42 BOUNDARY
- LOS ANGELES WORLD AIRPORTS BOUNDARY
- 2172.86 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) IN SEPTEMBER 2004. (SEE NOTE 2 BELOW FOR SPECIFIC DATES) NM - NOT MEASURED
- GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MSL; 20 FOOT CONTOUR; DASHED WHERE INFERRED
- GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MSL; 10 FOOT CONTOUR; DASHED WHERE INFERRED
- COINCIDENCE OF FAULT AND GROUNDWATER SUBBASIN, FAULTS APPROXIMATE WITH ANTELOPE VALLEY GROUNDWATER BASIN (BLOYD, 1967)
- 24 PUBLIC LAND SURVEY SECTION

NOTES:

1. DATA IN PARENTHESES ARE FROM WELLS COMPLETED BELOW THE WATER TABLE AND WERE NOT USED IN DEVELOPING GROUNDWATER ELEVATION CONTOURS.
2. WATER LEVELS AT AFP42 MONITORING WELLS WERE MEASURED ON SEPTEMBER 23, 2004. WATER LEVELS AT THE DISTRICT'S MONITORING WELLS WERE MEASURED ON SEPTEMBER 22, 2004. WATER LEVELS AT MW25 WERE MEASURED ON SEPTEMBER 27, 2004.

BASEMAP MODIFIED FROM AERIAL PHOTOGRAPH PROVIDED BY AIRPHOTO USA (MARCH 2004)

GROUNDWATER ELEVATION CONTOUR MAP SEPTEMBER 2004

PALMDALE WRP
NITRATE DELINEATION PROGRAM
Palmdale, California

GEOMATRIX	Figure By: MWW	Project No.: 9520	Figure: 4-2
	Date: 12/29/04	Map No.: 213	

PALMDALE WATER RECLAMATION PLANT

FIGURES 4.3 – 4.74

GRAPHICAL SUMMARIES

FIGURE 4.3
Palmdale Water Reclamation Plant SW1
Chloride and TDS

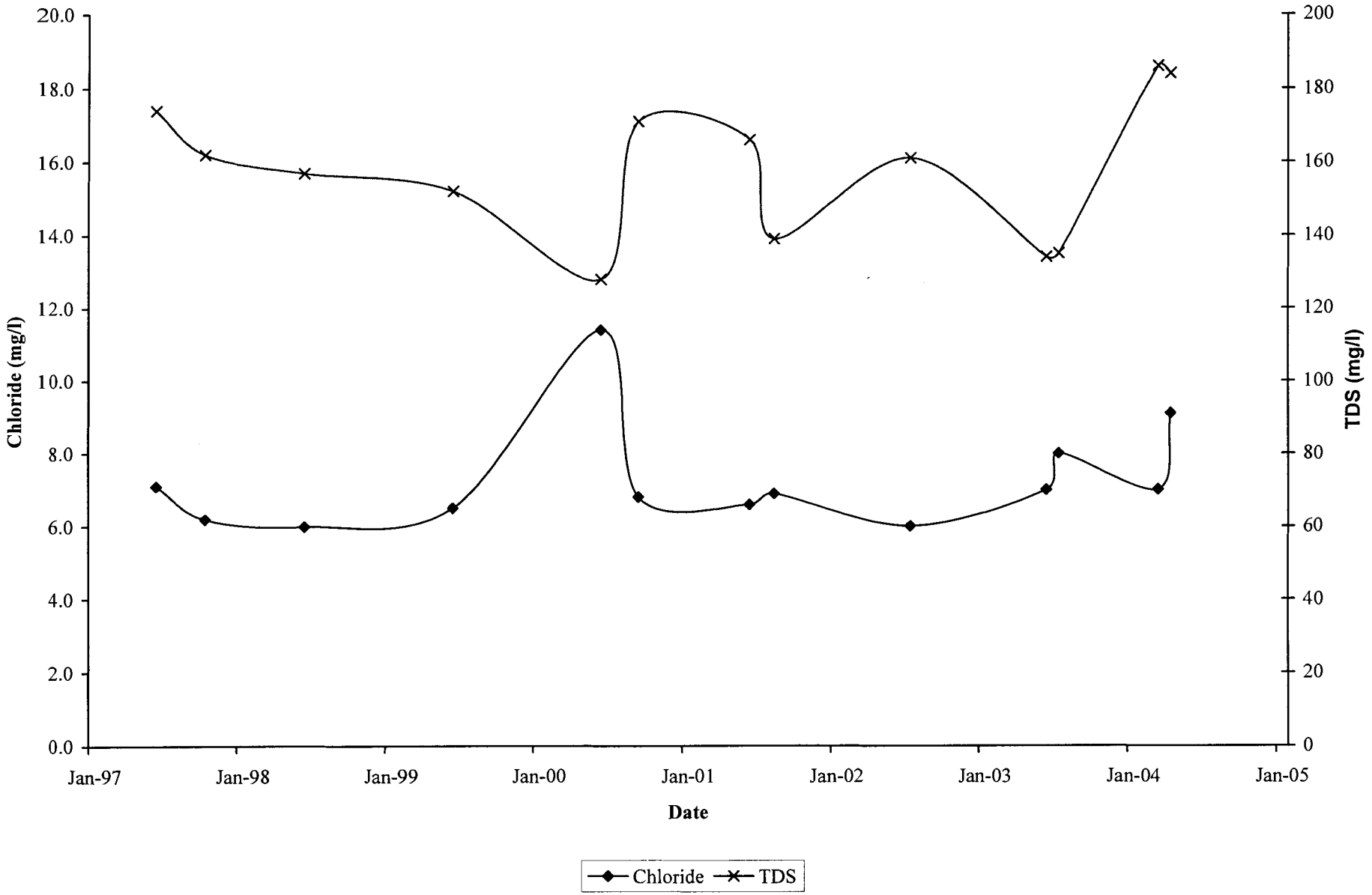


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.4
Palmdale Water Reclamation Plant SW1
MBAS, NH_3, TKN, NO_3^-

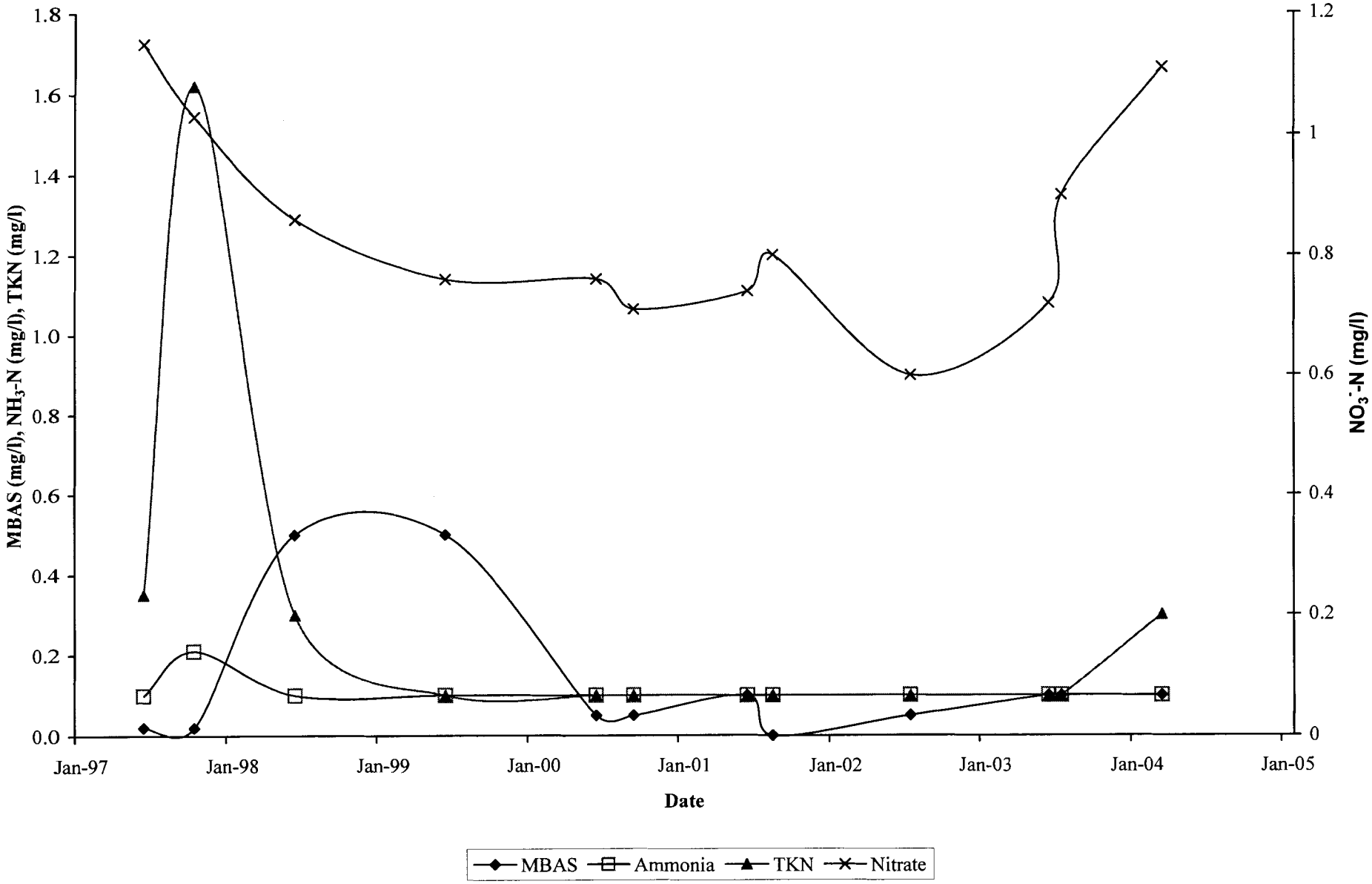


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.5

Palmdale Water Reclamation Plant SW2

Chloride and TDS

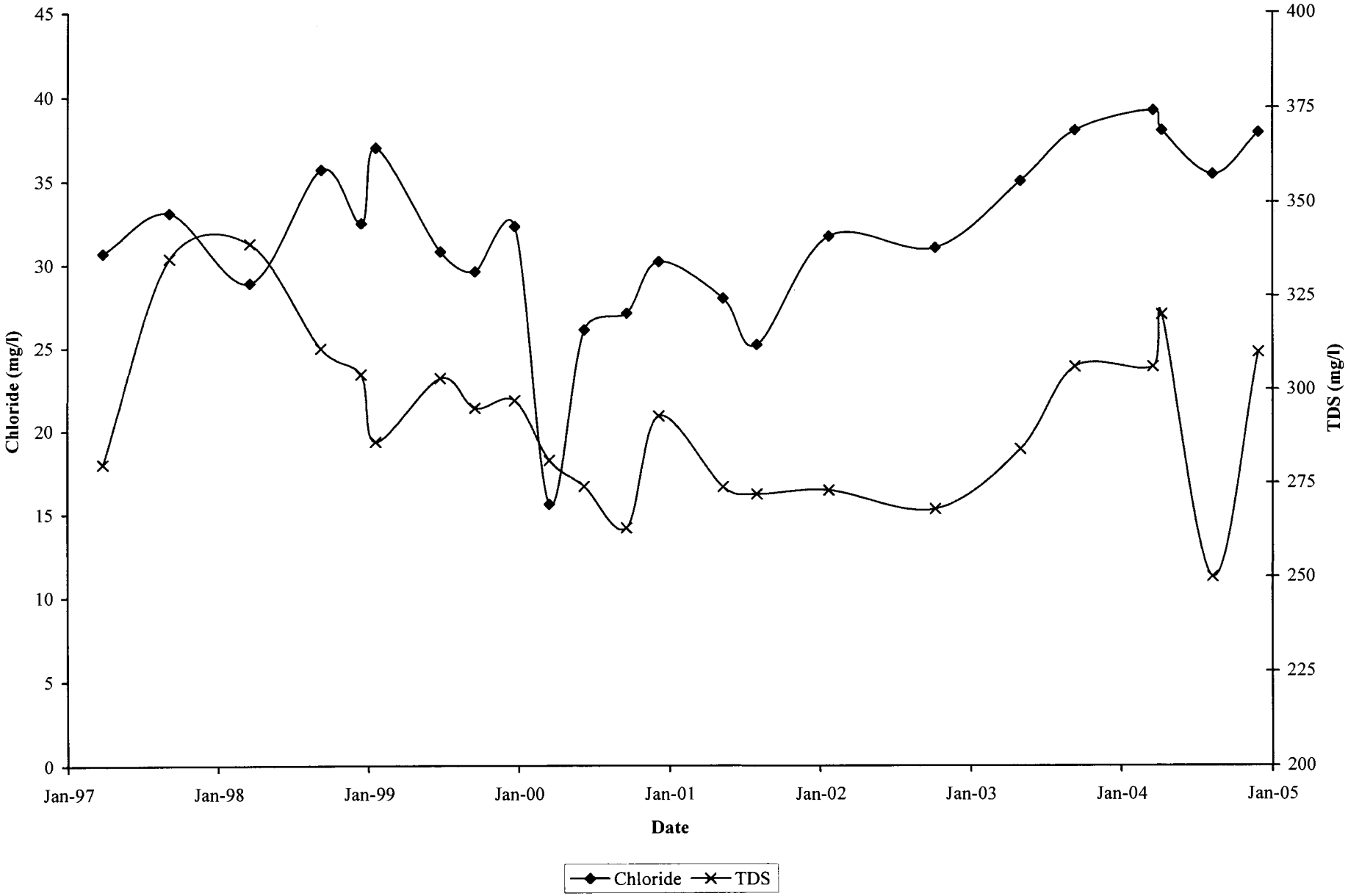


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.6

Palmdale Water Reclamation Plant SW2

MBAS, NH_3, TKN, NO_3^-

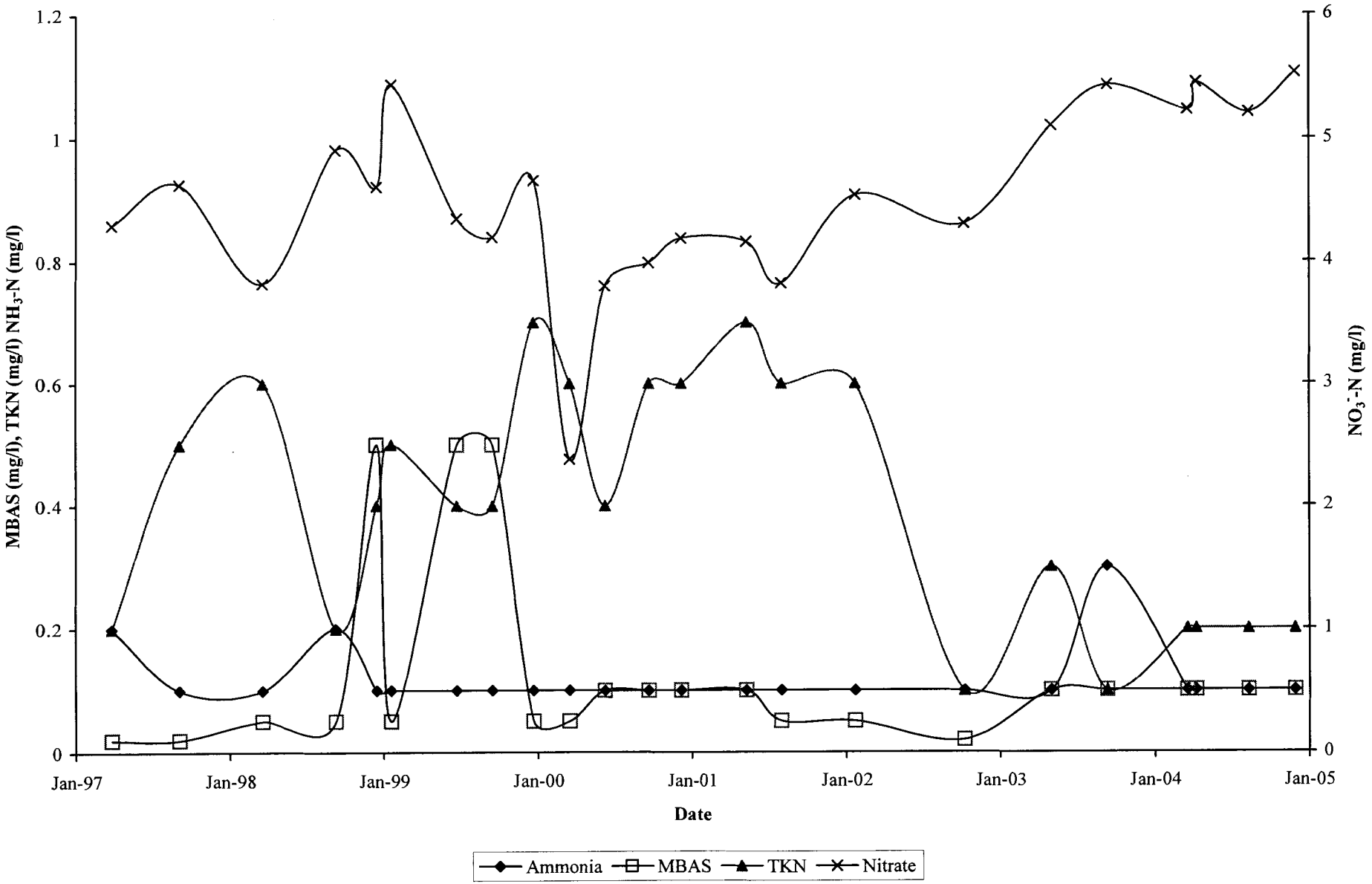


FIGURE 4.7
Palmdale Water Reclamation Plant, SW 5
Chloride and TDS

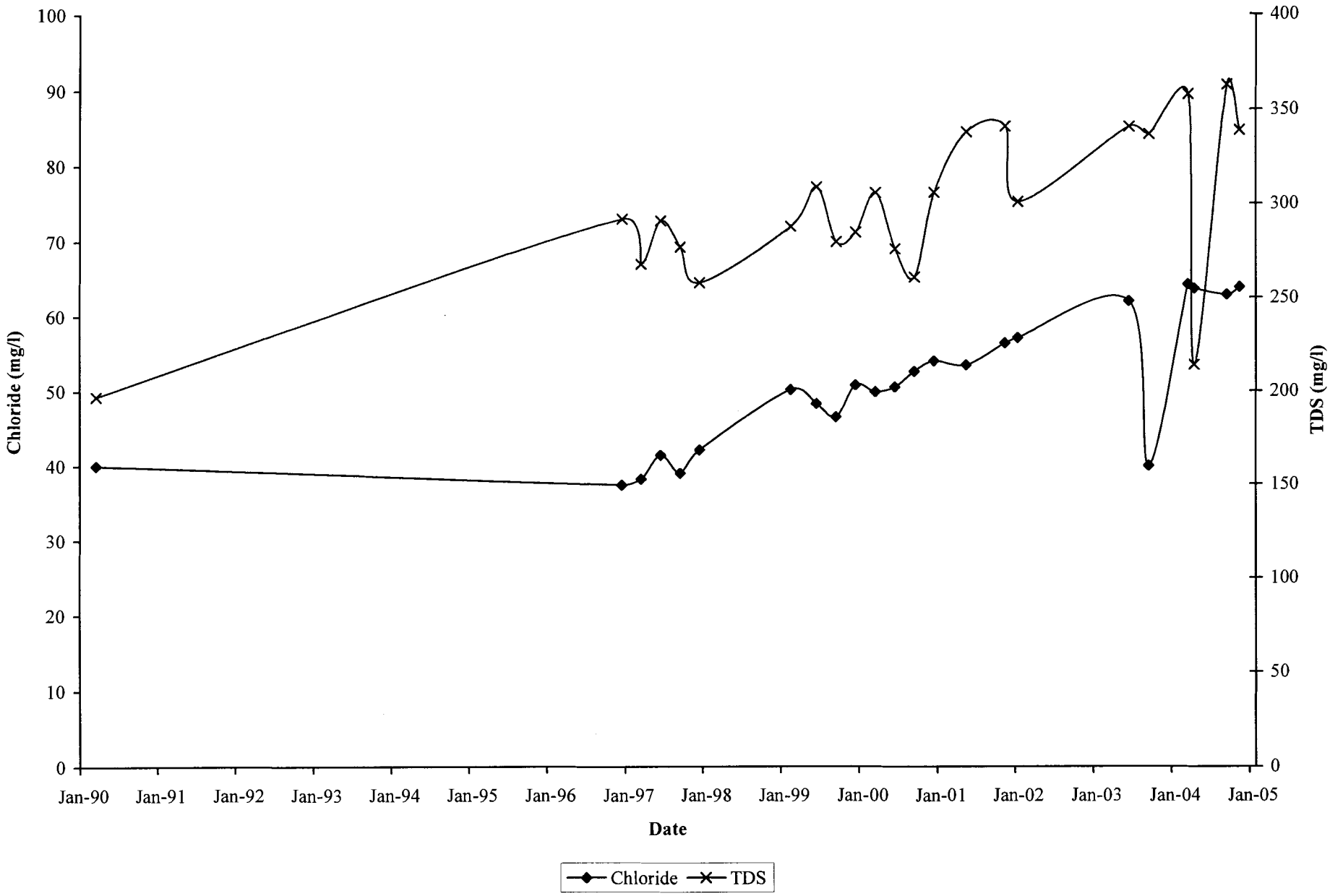


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.8
Palmdale Water Reclamation Plant, SW 5
MBAS, NH_3, TKN, NO_3^-

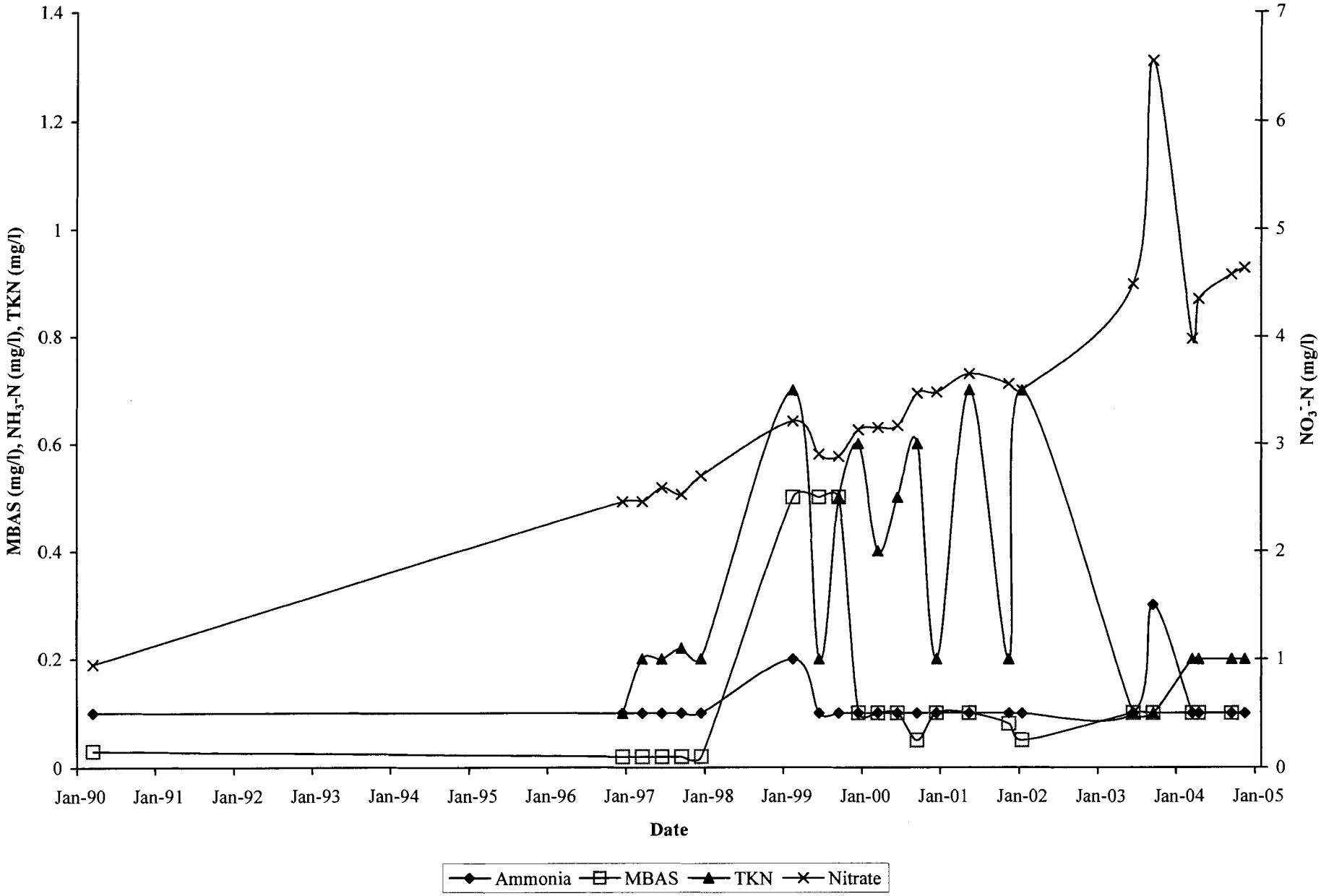


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.9
Palmdale Water Reclamation Plant, SW 7
Chloride and TDS

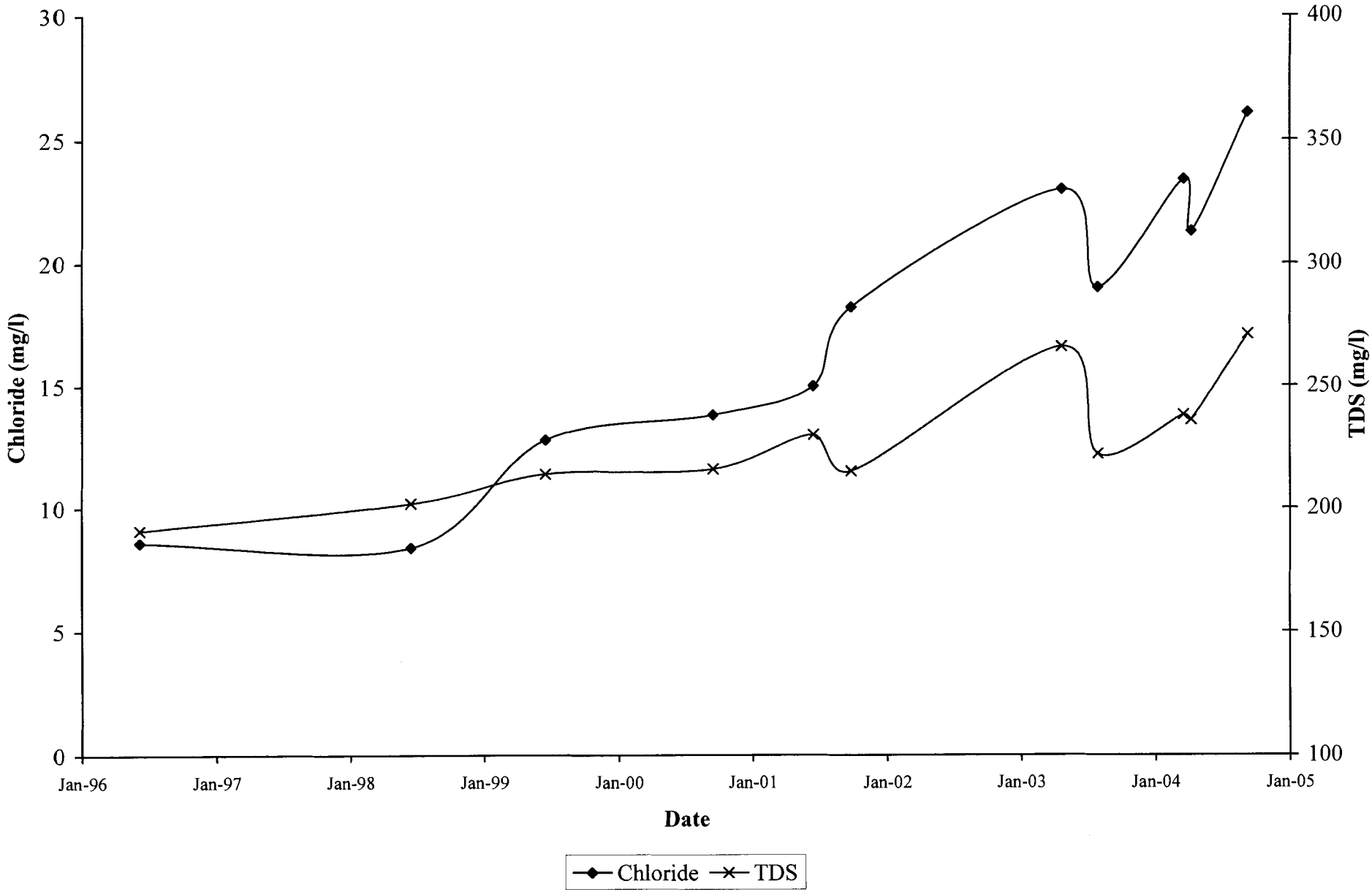


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.10
Palmdale Water Reclamation Plant, SW 7
MBAS, NH_3, TKN, NO_3^-

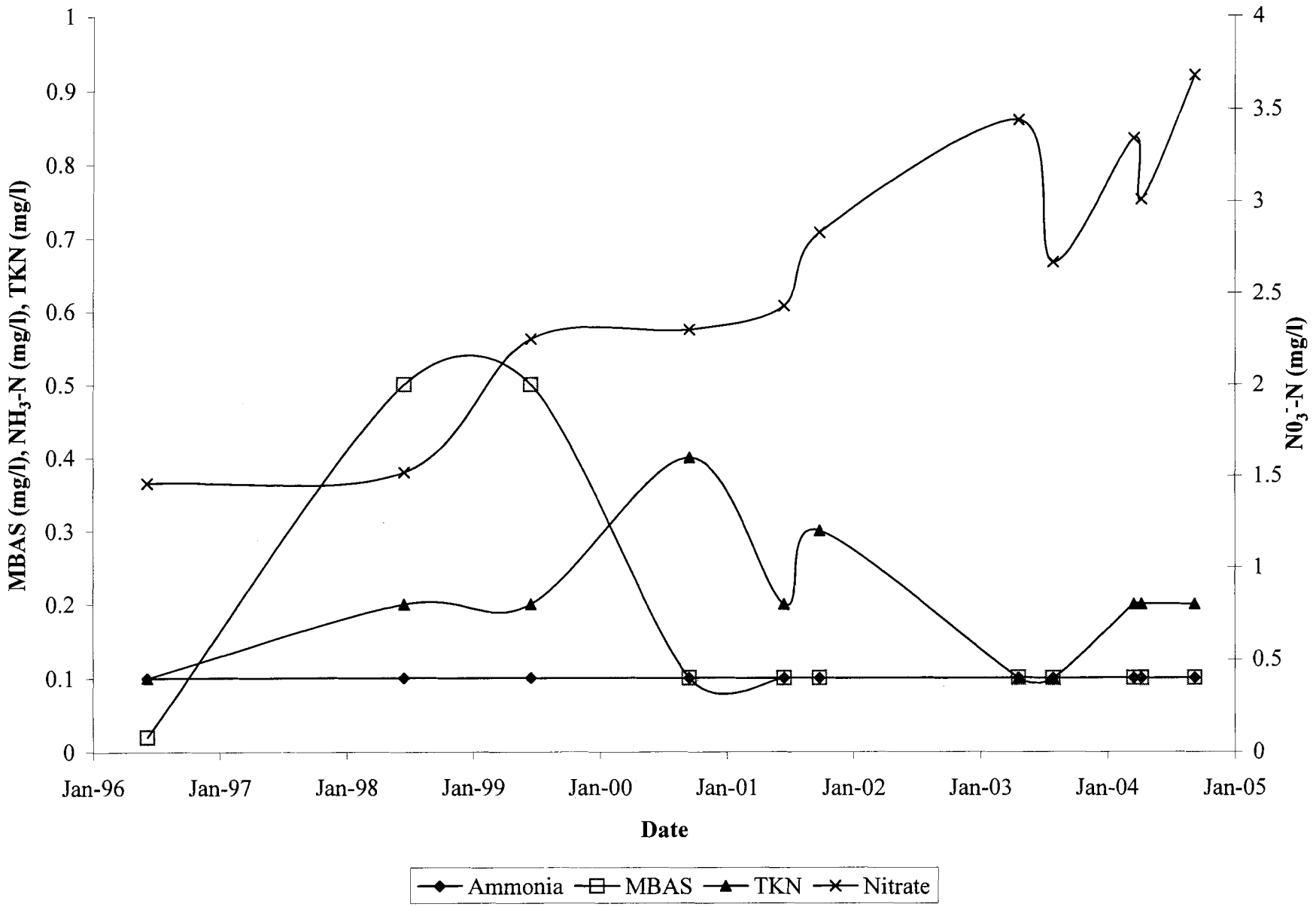


FIGURE 4.11
Palmdale Water Reclamation Plant, SW8
Chloride and TDS

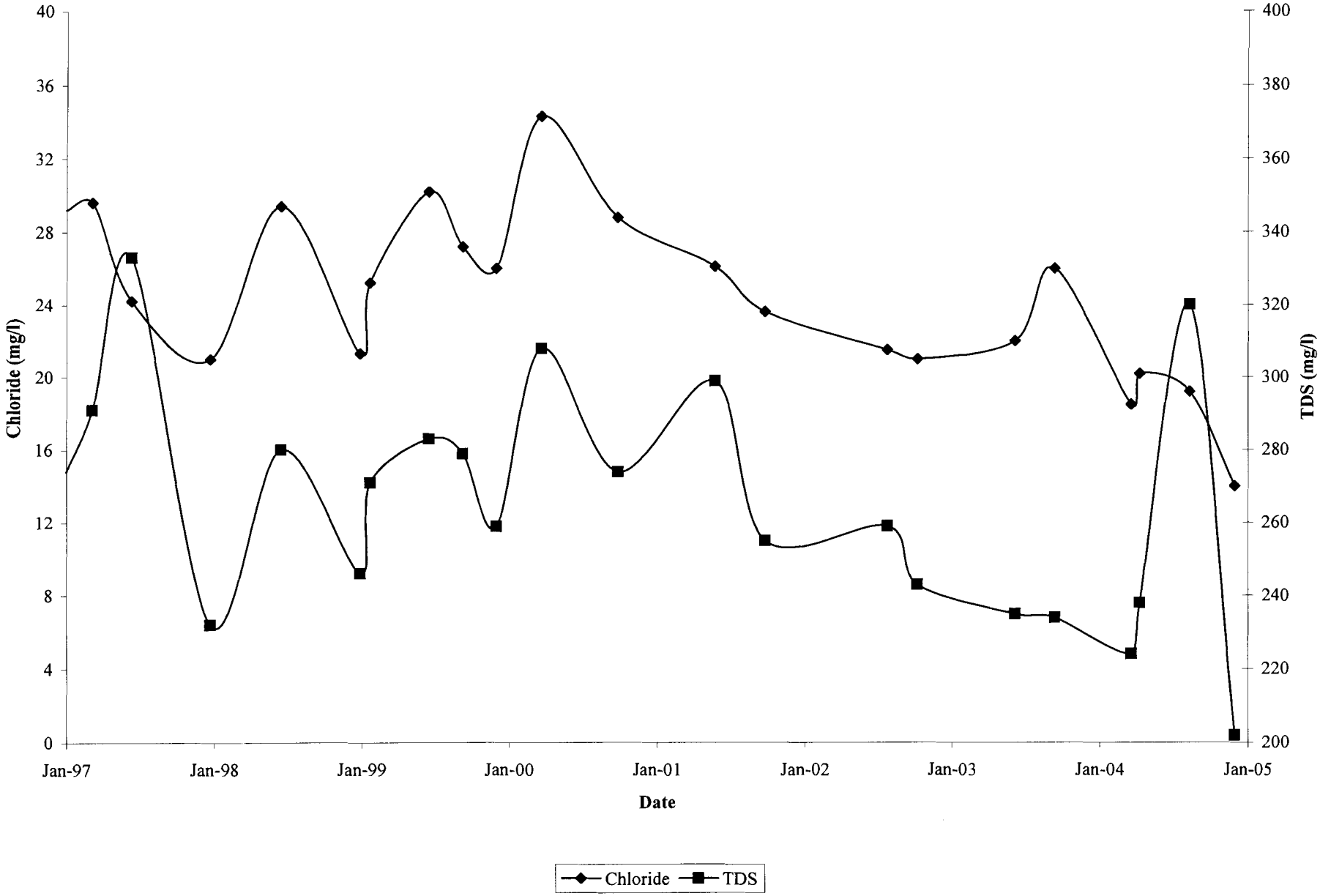


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.12
Palmdale Water Reclamation Plant, SW8
MBAS, TKN, NH_3, NO_3^-

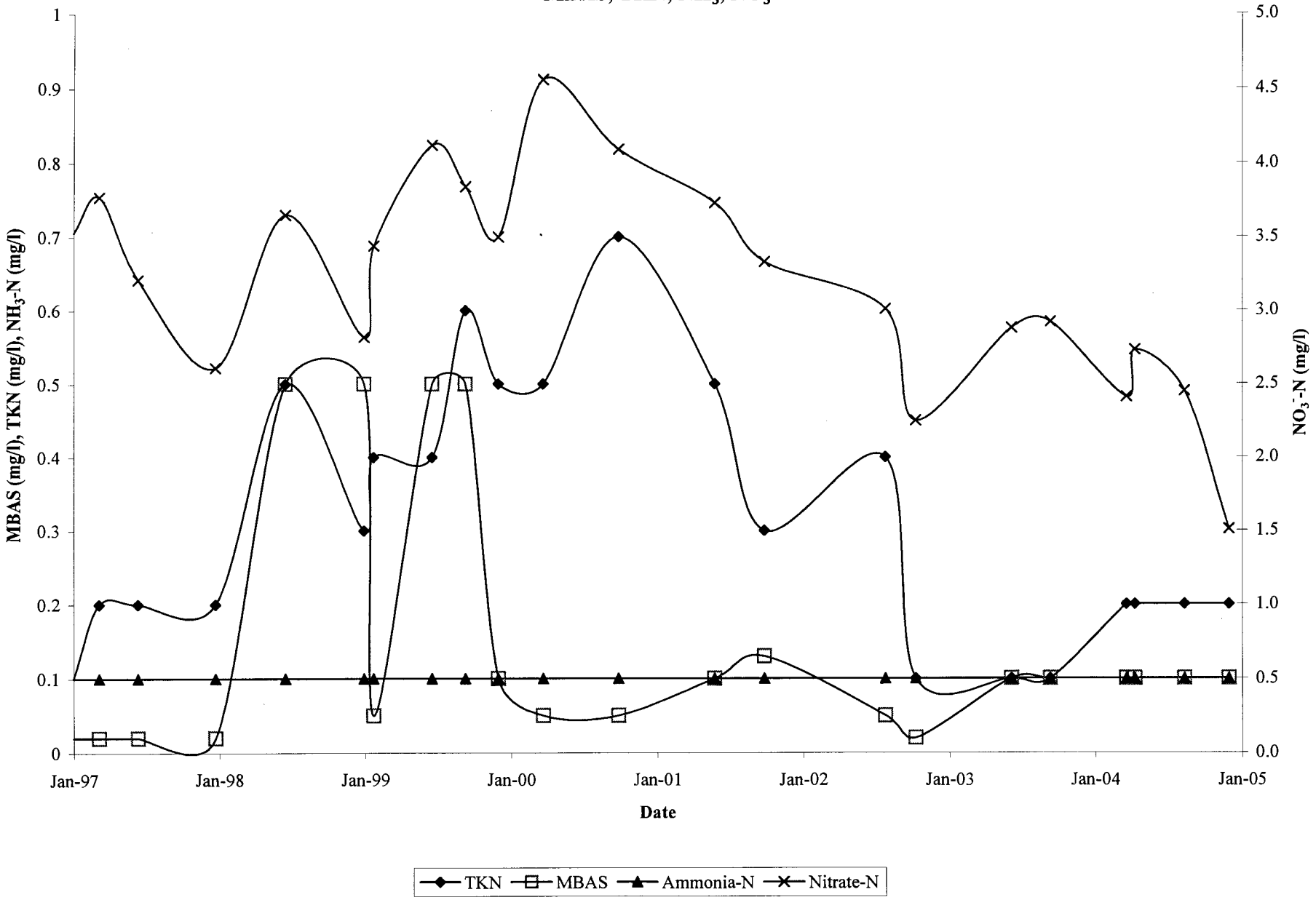


FIGURE 4.13

Palmdale Water Reclamation Plant, SW9

Chloride and TDS

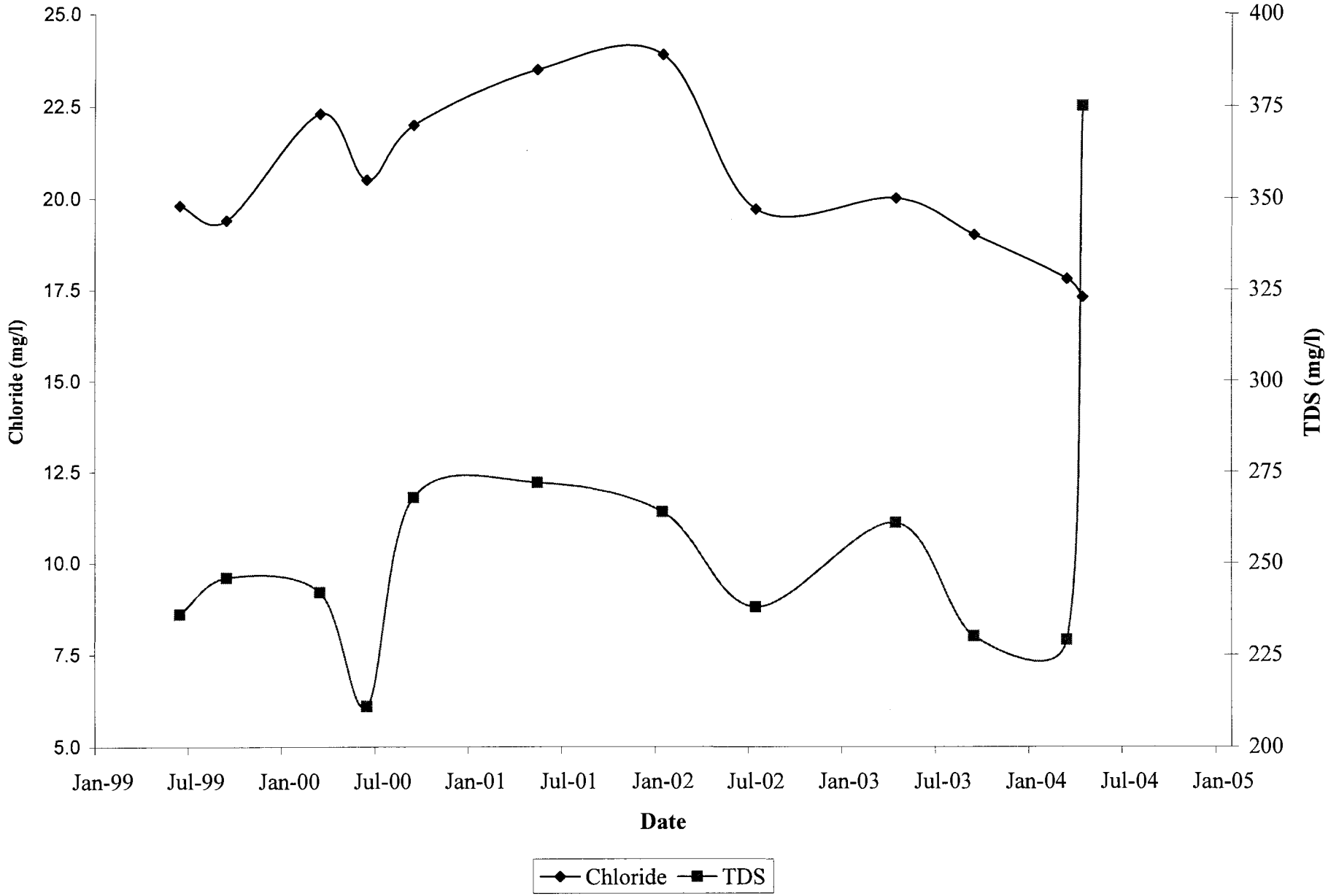


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.14

Palmdale Water Reclamation Plant, SW9

MBAS Nitrate TKN Ammonia

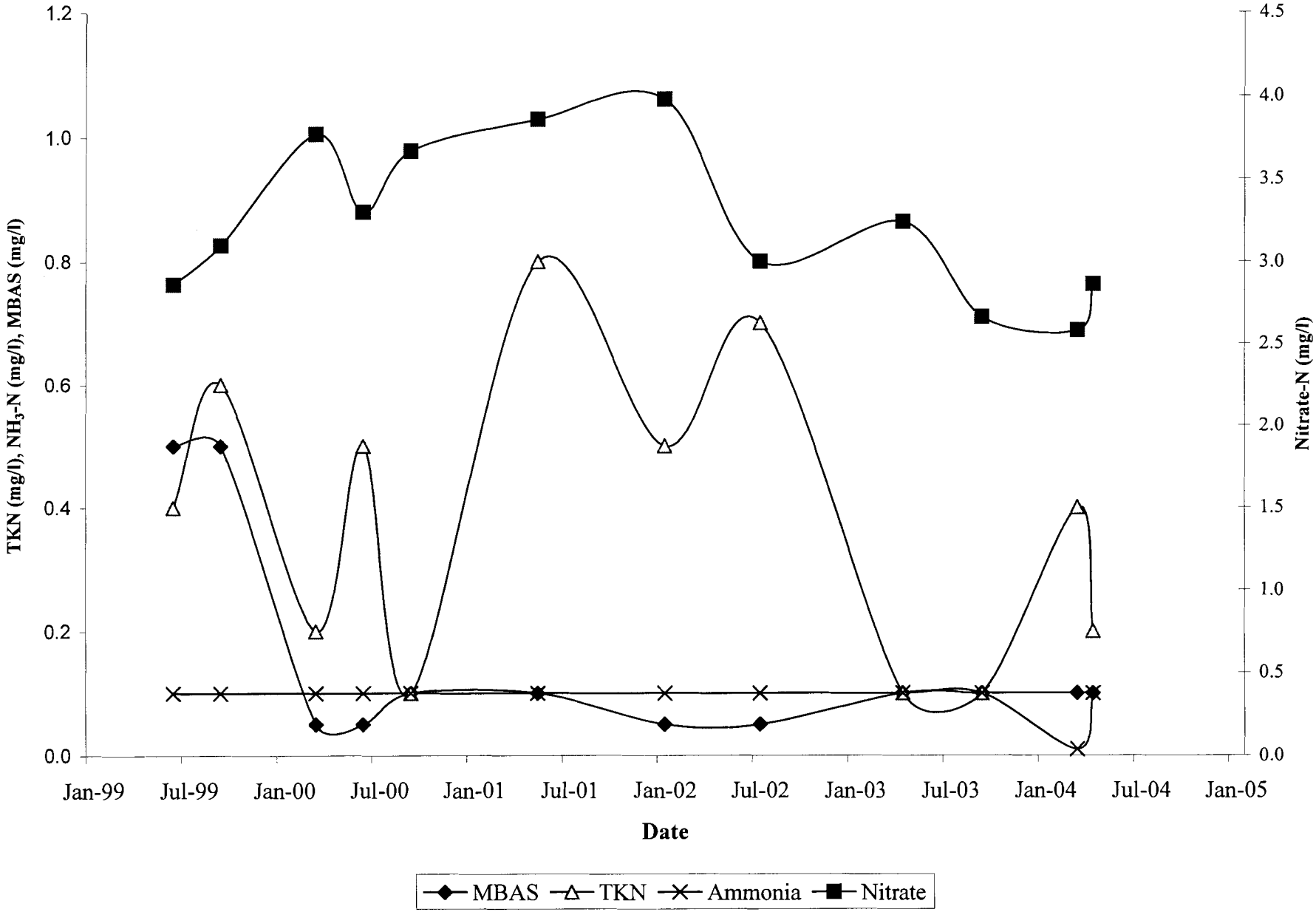


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.15
Palmdale Water Reclamation Plant SW 10
Chloride and TDS

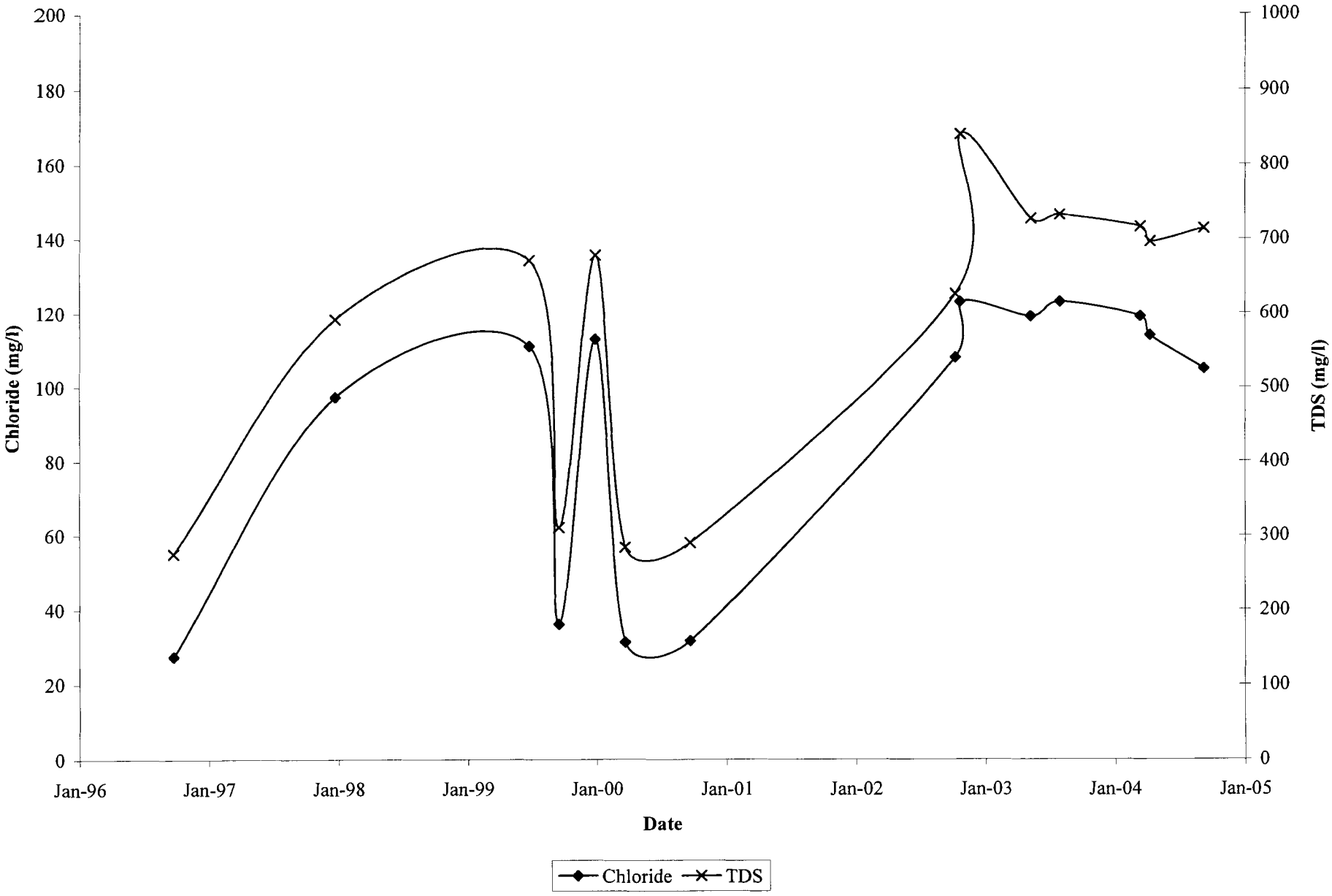


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.16
Palmdale Water Reclamation Plant SW 10
MBAS, NH_3, TKN, NO_3^-

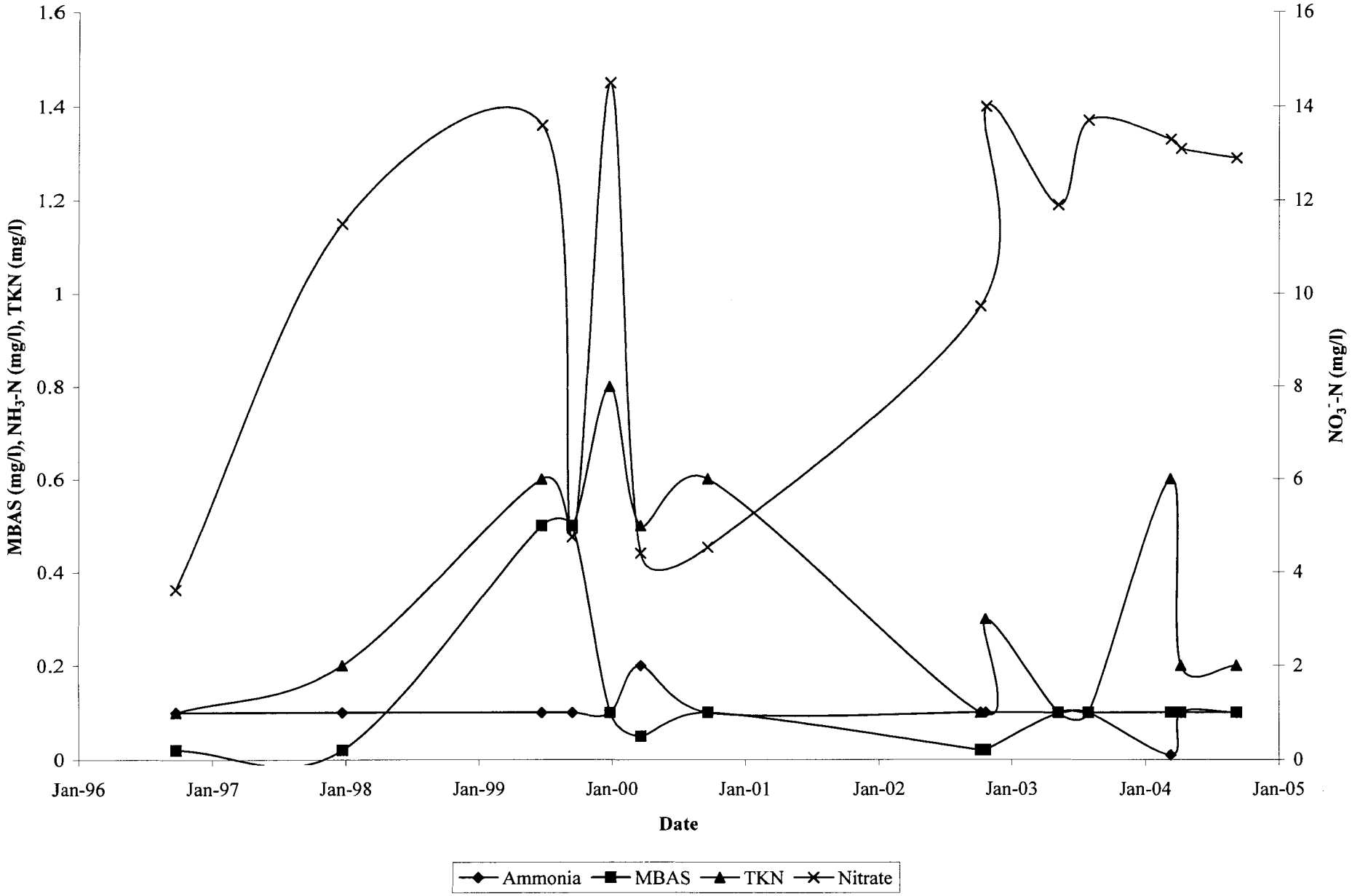


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.17

Palmdale Water Reclamation Plant SW13

Chloride and TDS

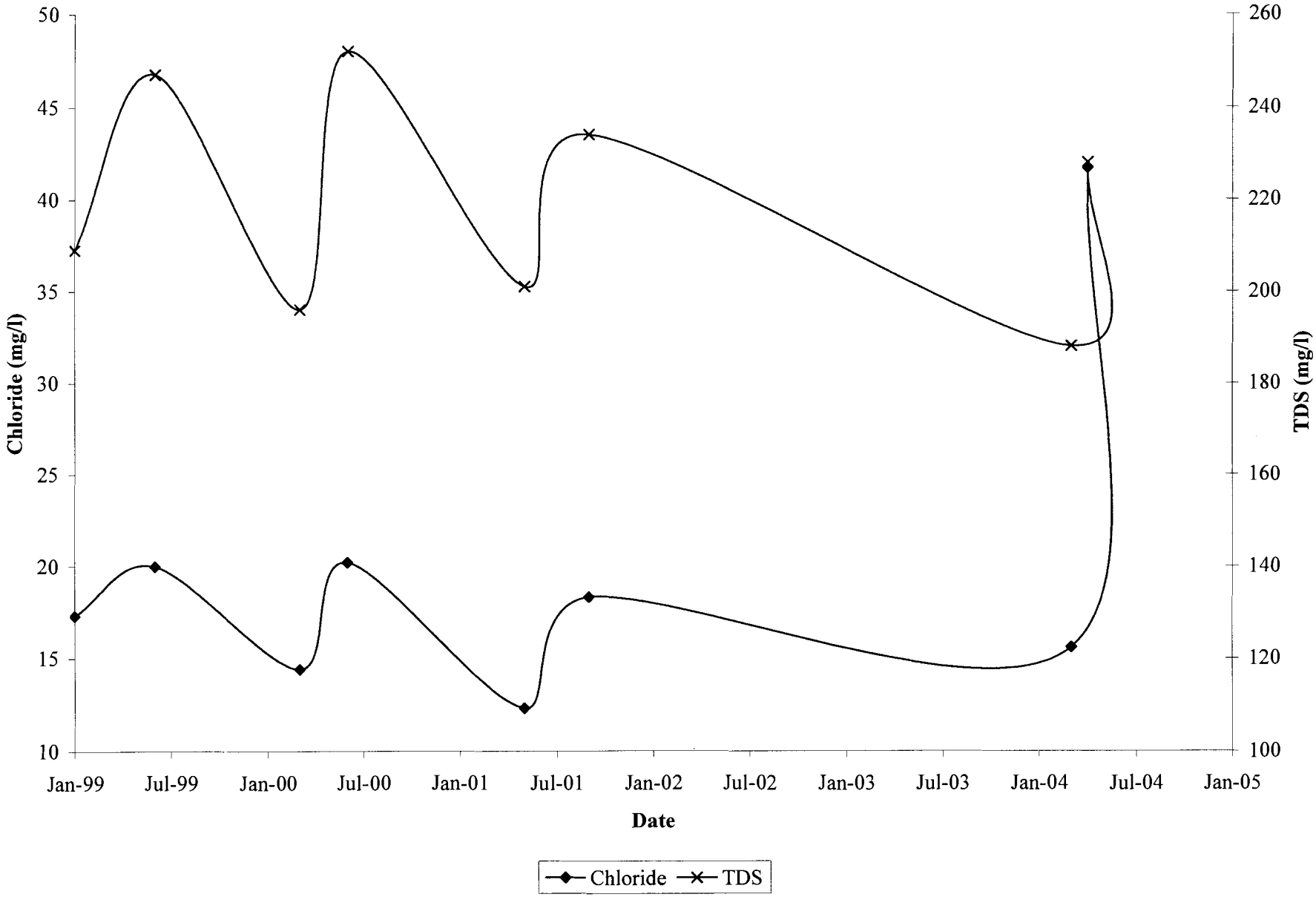


FIGURE 4.18

Palmdale Water Reclamation Plant SW13

MBAS, NH_3, TKN, NO_3^-

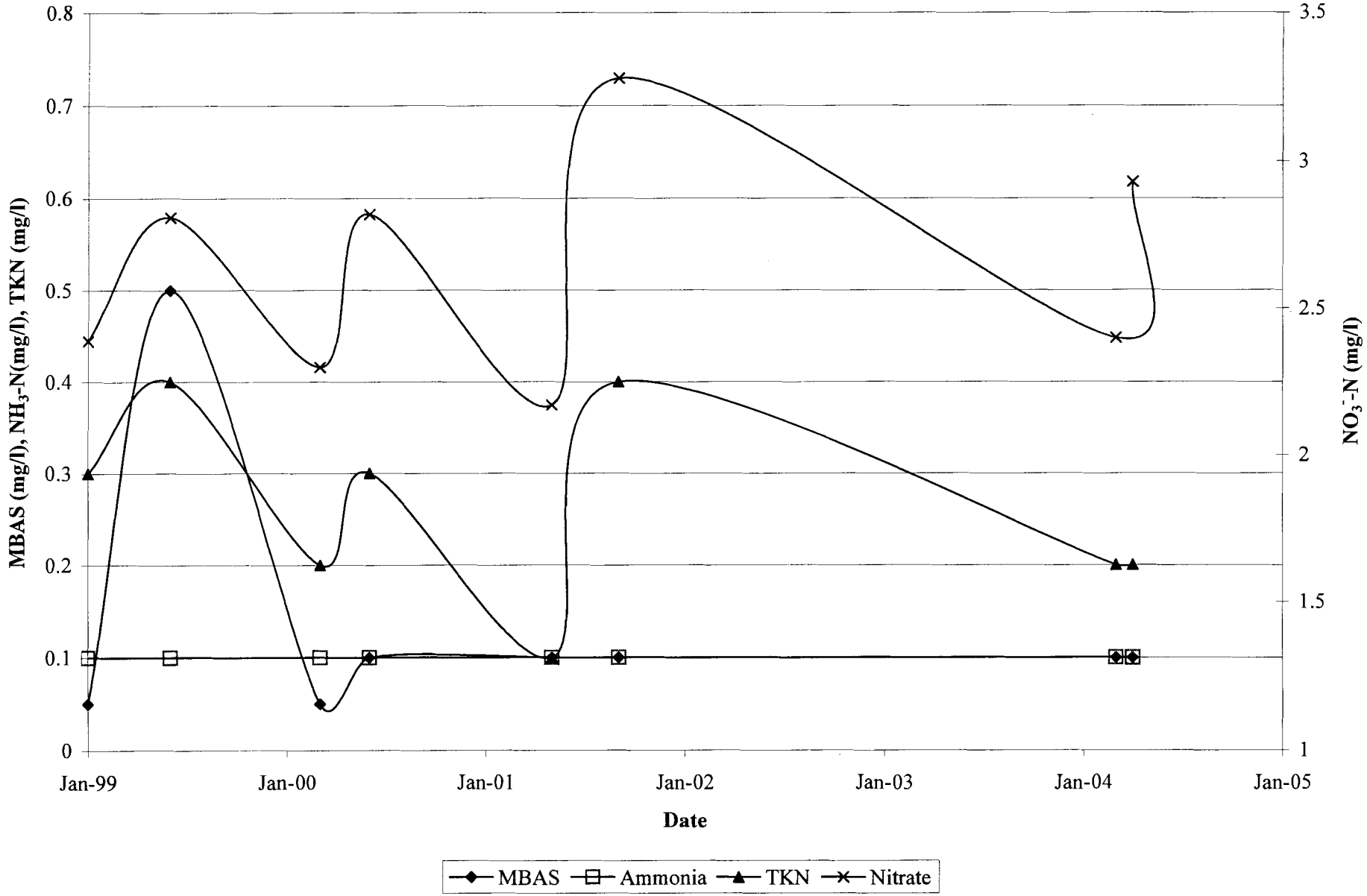


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.19

Palmdale Water Reclamation Plant SW 14

Chloride and TDS

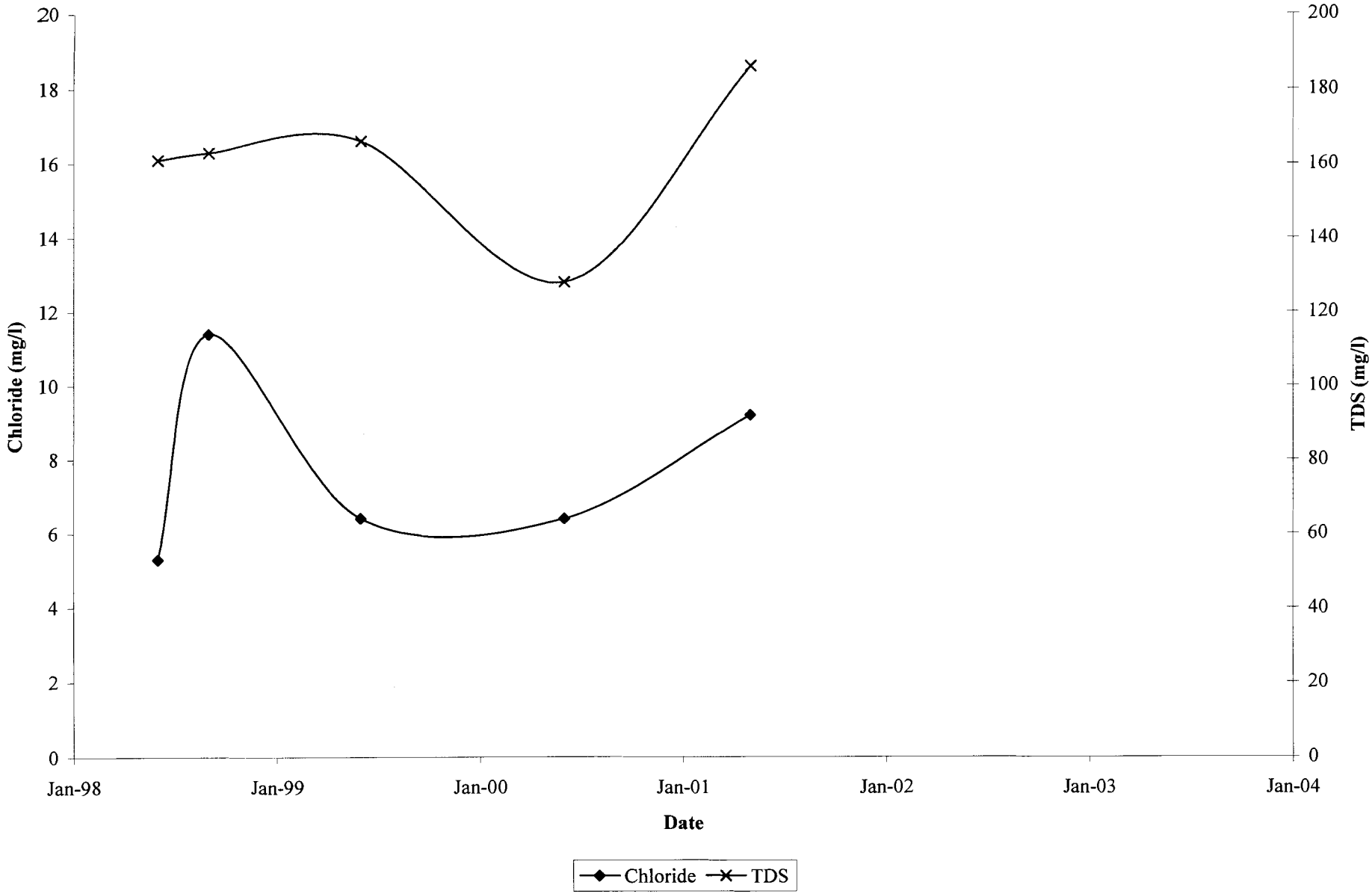


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.20

Palmdale Water Reclamation Plant SW 14

MBAS, NH_3, TKN, NO_3^-

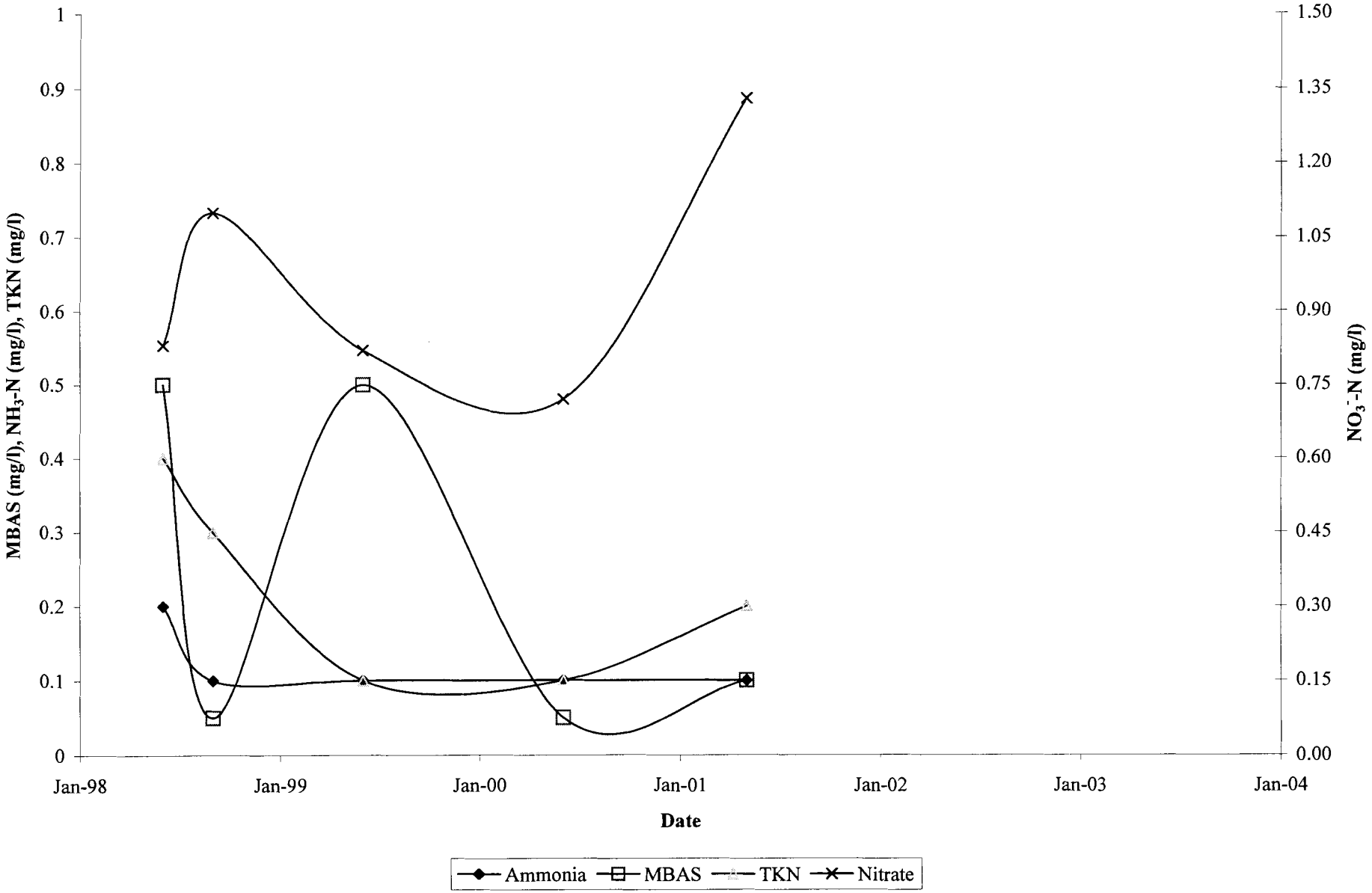


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.21

Palmdale Water Reclamation Plant SWE

Chloride and TDS

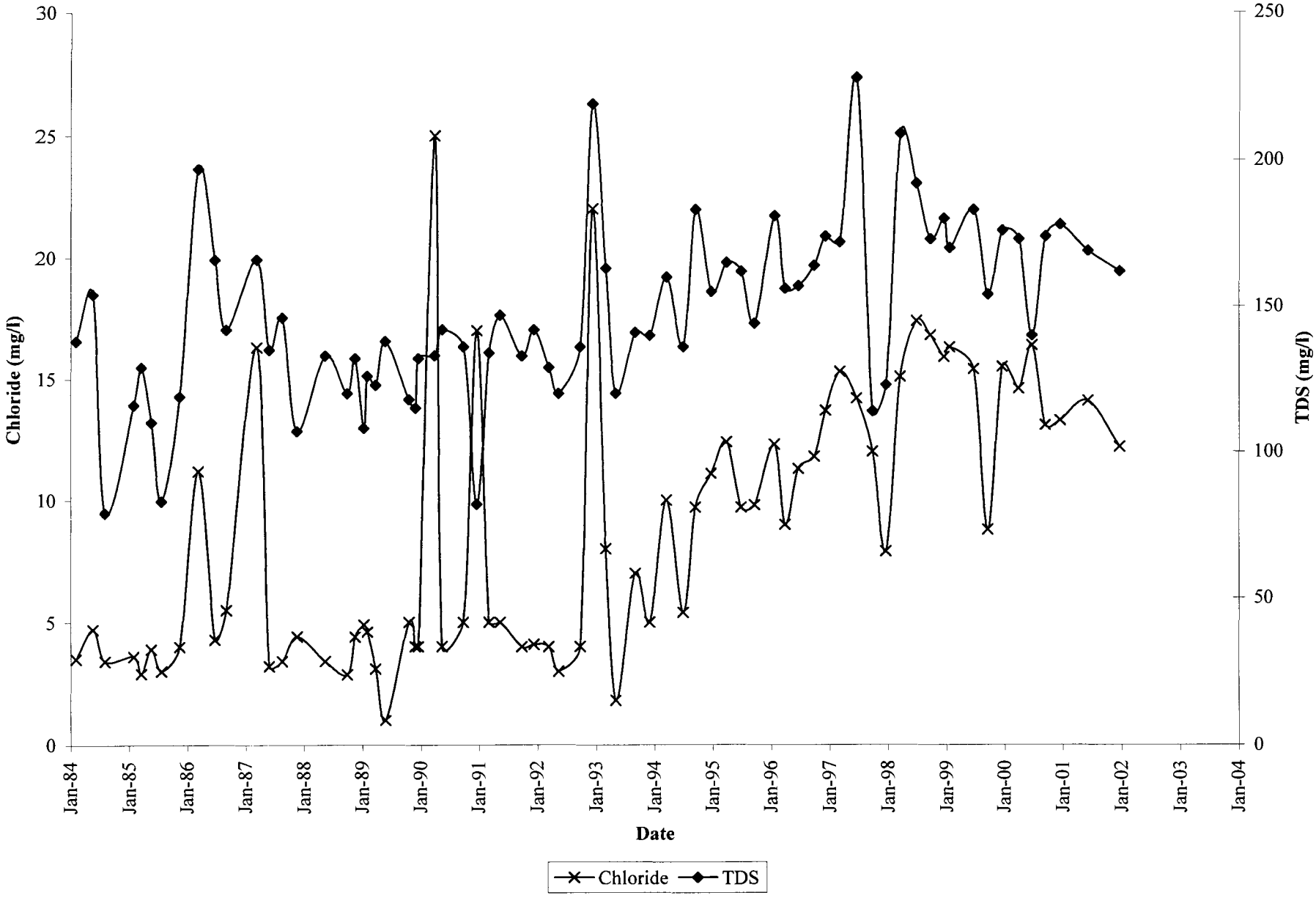


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.22

Palmdale Water Reclamation Plant SWE

MBAS, NH_3, TKN, NO_3^-

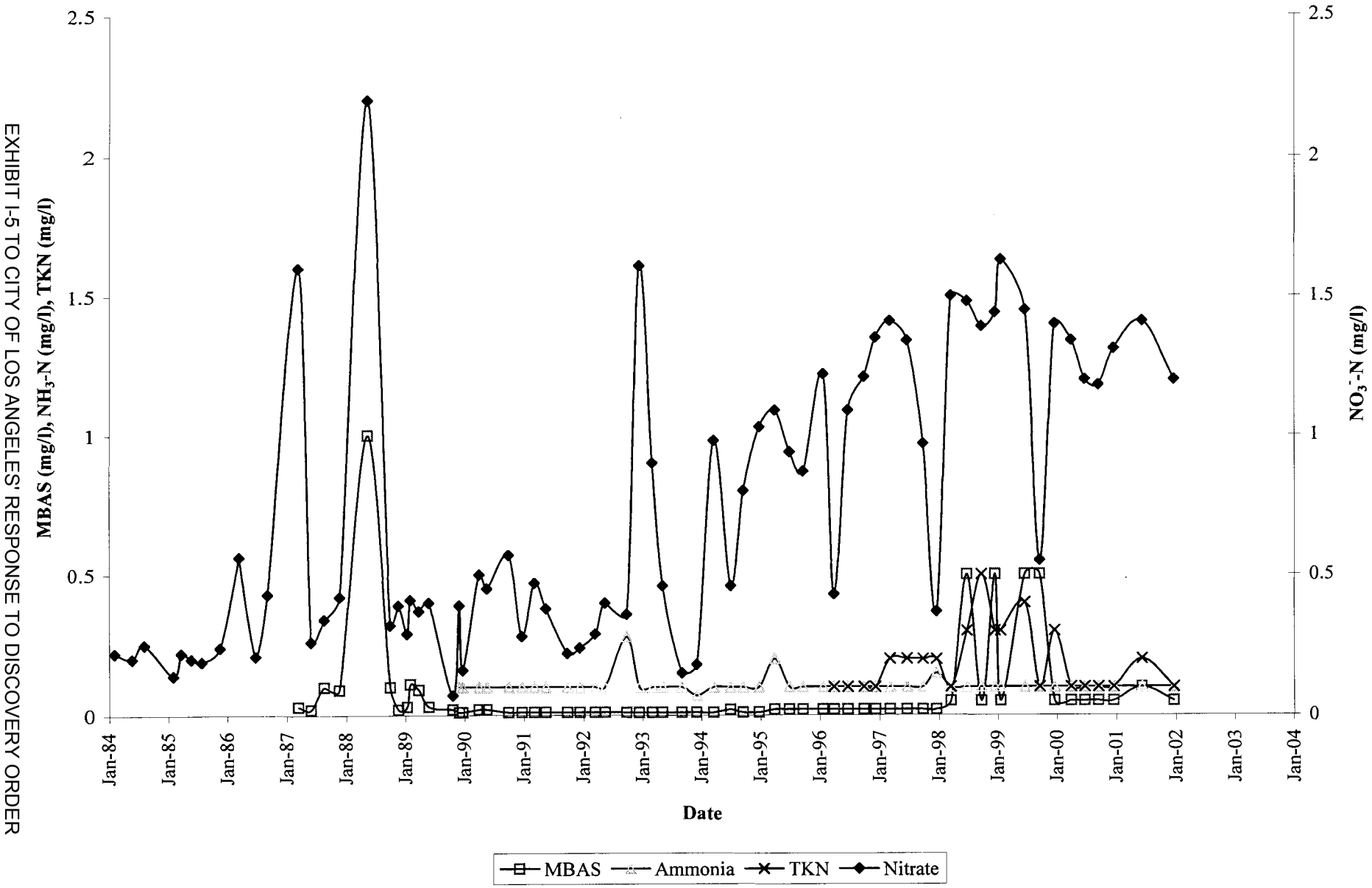


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.23

Palmdale Water Reclamation Plant SW H2

Chloride and TDS

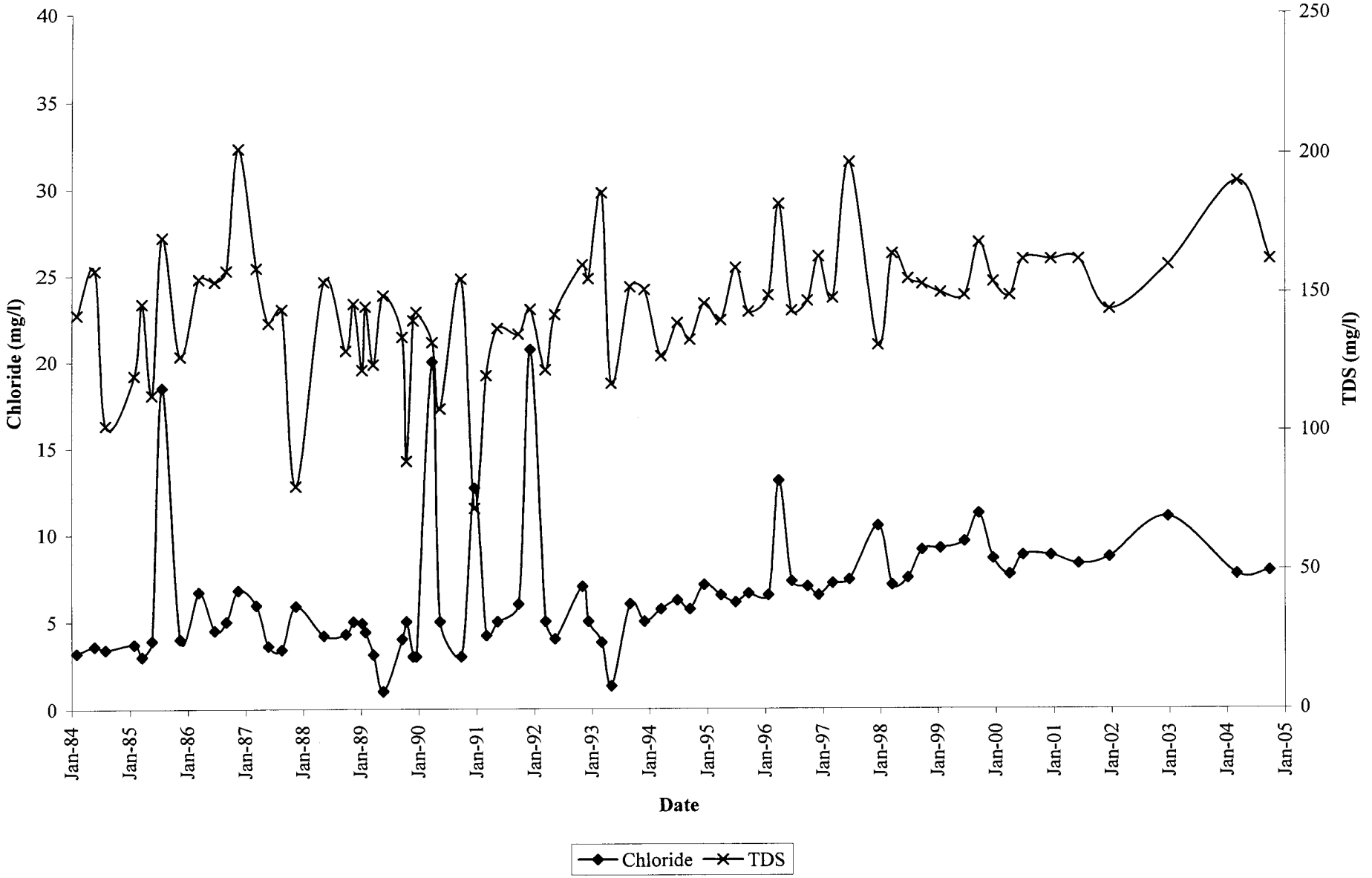


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.24

Palmdale Water Reclamation Plant SW H2

MBAS, NH_3, TKN, NO_3^-

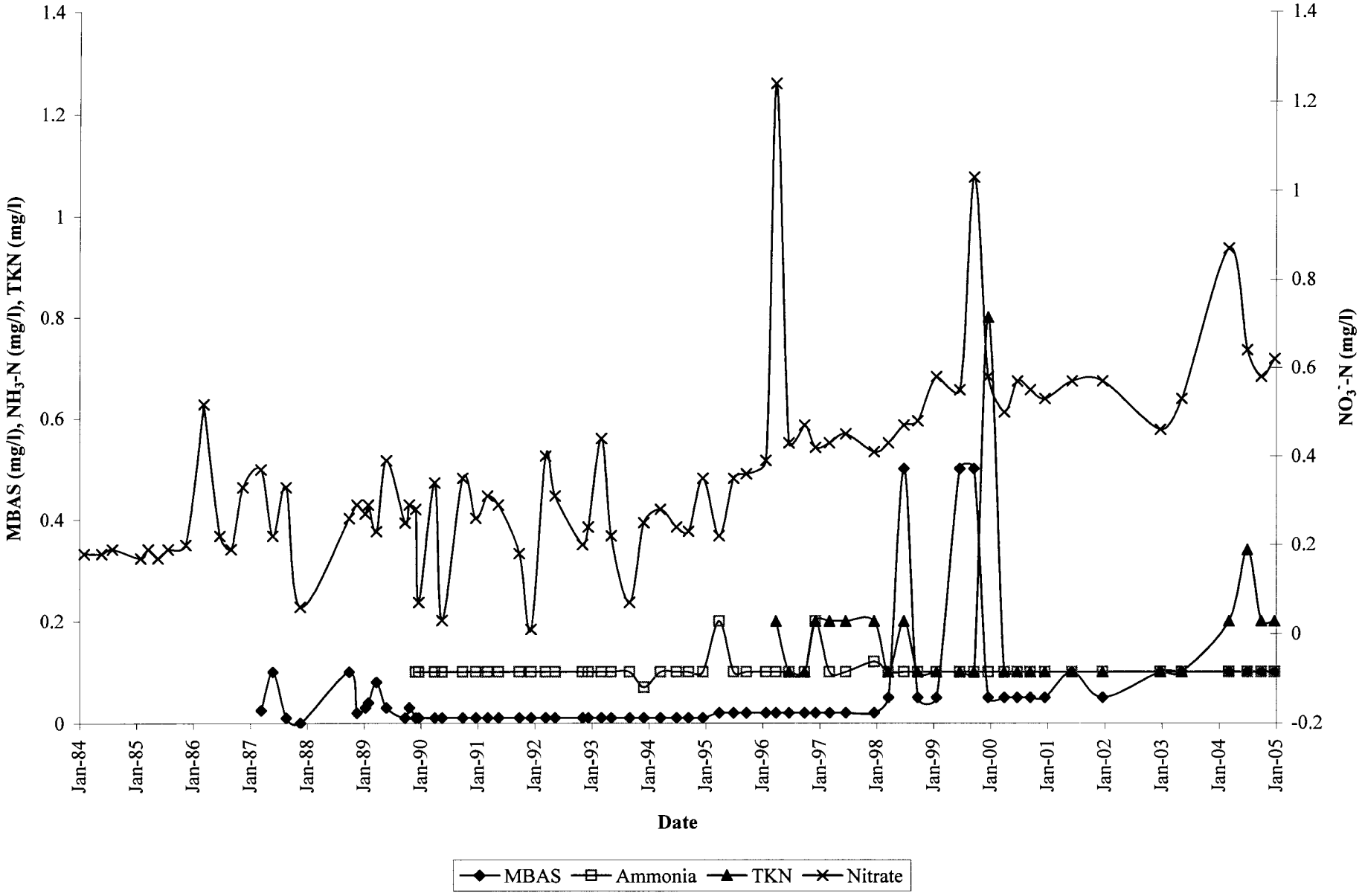


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.25
Palmdale Water Reclamation Plant MW 1
Chloride and TDS

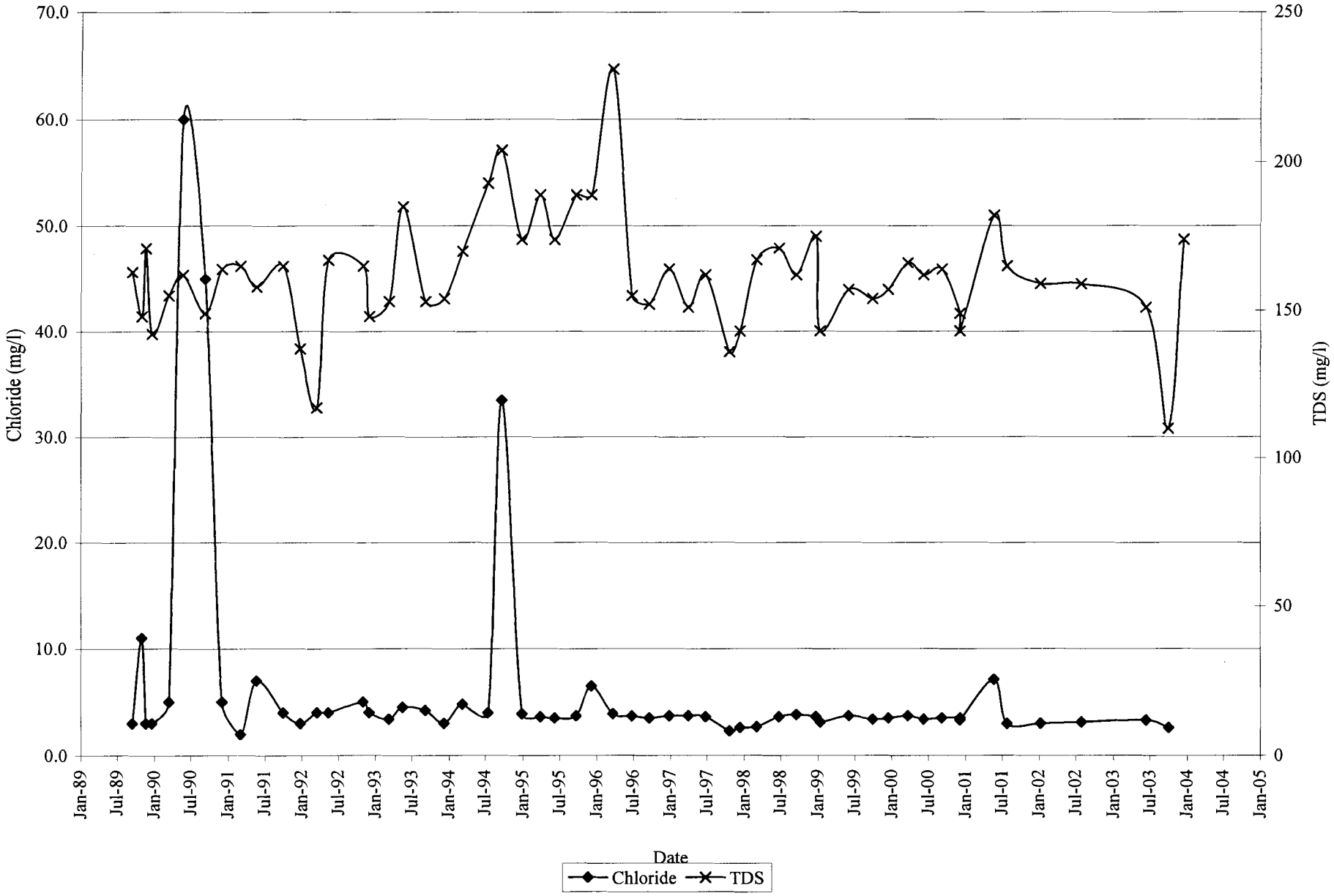


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER

FIGURE 4.26
Palmdale Water Reclamation Plant MW 1
MBAS, NH_3, TKN, NO_3^-

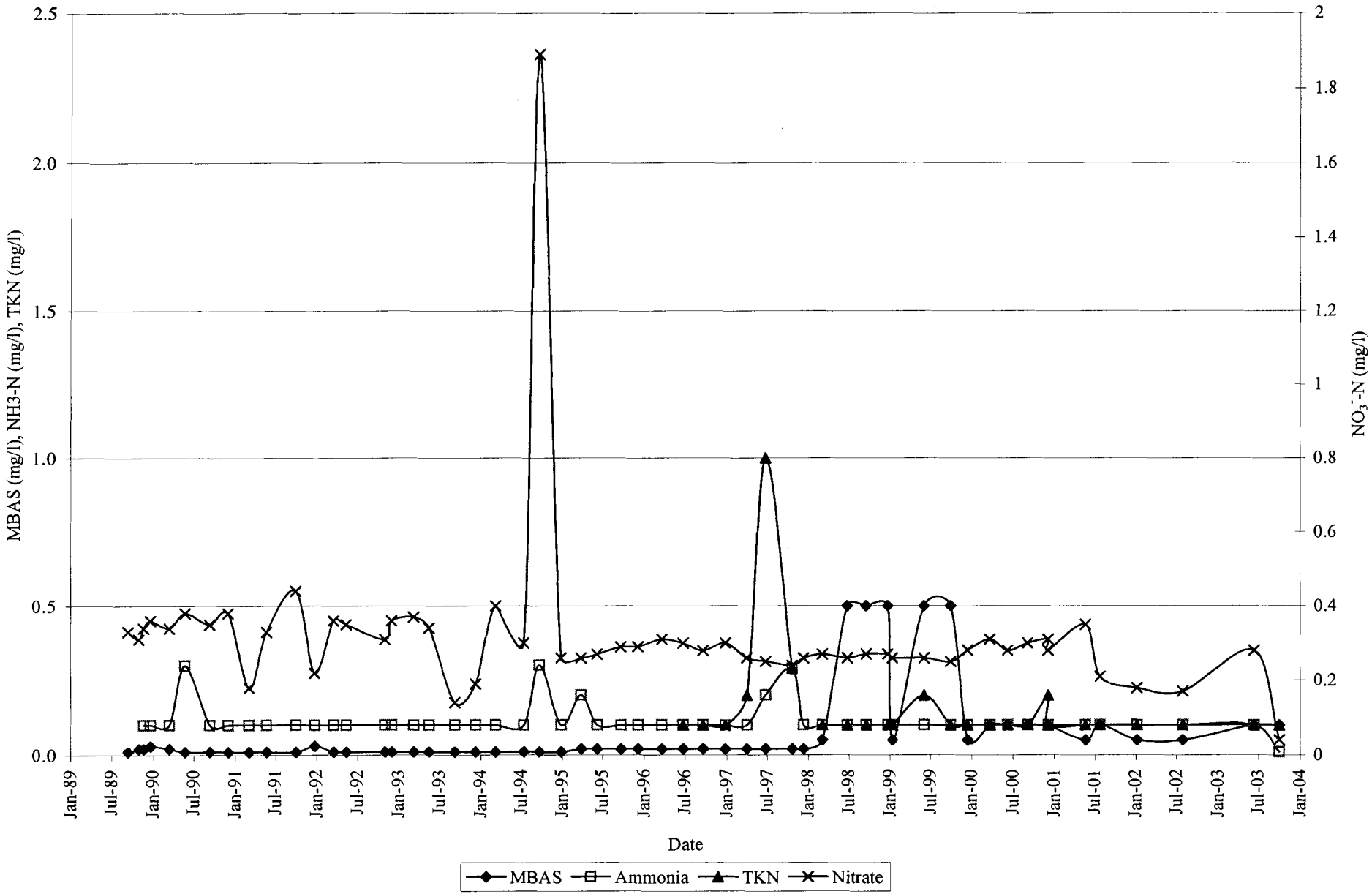


EXHIBIT I-5 TO CITY OF LOS ANGELES' RESPONSE TO DISCOVERY ORDER