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INTERIM REMEDIAL ACTION REPORT

San Gabriel Valley Area 2 Superfund Site
(commonly known as the Baldwin Park Operable Unit)

La Puente Valley County Water District Subproject
Operable Unit 02

September 2003

To the best of our knowledge, after thorough investigation, we certify that the information contained in or accompanying this submission is true, accurate and complete. We are aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		
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INTERIM REMEDIAL ACTION REPORT
SEPTEMBER 2003

San Gabriel Valley Area 2 Superfund Sites, Baldwin Park, California

EPA CERCLIS ID Number CAD 980818512

La Puente Valley County Water District Subproject
Operable Unit 2

Section I - Introduction

The San Gabriel Valley Superfund Sites

The San Gabriel Valley Superfund sites include multiple areas of contaminated groundwater in the San Gabriel Basin aquifer, a critical source of drinking water for water-scarce Southern California. More than 30 square miles of the 170 square mile San Gabriel Valley are contaminated. The San Gabriel Valley Superfund sites include areas of soil and groundwater contamination underlying portions of the cities of Alhambra, Arcadia, Azusa, Baldwin Park, Industry, Irwindale, El Monte, La Puente, Monrovia, Rosemead, South El Monte, and West Covina, in eastern Los Angeles County. The area is largely suburban, with a mix of residential, commercial, and industrial development.

Groundwater contamination was first detected in the San Gabriel Valley in 1979. By 1984, 59 wells were found to be contaminated with high levels of volatile organic compounds (VOCs). As of June 2003, 150 potable wells have been contaminated with VOCs, perchlorate, N-nitrosodimethylamine (NDMA), or other contaminants. Despite the widespread areas of contamination, the San Gabriel Basin aquifer continues to provide approximately 90 percent of the domestic water supply for the Valley's more than one million residents.

The soil and groundwater contamination at the sites results from the cumulative impact of decades of improper chemical handling and disposal practices at hundreds of industrial operations in the Valley. Although many of the laws regulating the handling and disposal of hazardous chemicals went into effect after 1970, historical documents demonstrate that local officials were concerned about the potential for groundwater contamination by industrial activity in the San Gabriel Valley as early as the 1950s.

The San Gabriel Valley Area 2 Superfund site is one of four San Gabriel Valley groundwater sites listed on the National Priorities List. The other three San Gabriel Valley Superfund sites are the San Gabriel Valley Area 1 site (which includes the Whittier Narrows, El Monte, and South El Monte Operable Units), the San Gabriel Valley Area 3 site (which addresses contamination in the Alhambra area), and the San Gabriel Valley Area 4 site (which includes the Puente Valley Operable Unit).

The San Gabriel Valley Area 2 Superfund site includes four operable units, which are collectively known as the Baldwin Park Operable Unit or BPOU. This remedial action report addresses one of the four operable units: the La Puente Valley County Water District operable unit (designated by EPA as operable unit 02 of the San Gabriel Valley Area 2 site).

The San Gabriel Valley Area 2 Superfund Site

Extent of Contamination

The San Gabriel Valley Area 2 Superfund Site addresses multiple, commingled plumes of groundwater contamination which have resulted in an area of contamination over a mile wide and eight miles long. The area of contamination extends to the southwest from the City of Azusa through portions of the cities of Irwindale, Baldwin Park, West Covina, and Industry. The depth to the groundwater varies from about 150 to 350 feet, and the groundwater contamination extends from the water table to more than 1,000 feet below ground surface. The most prevalent contaminants in the groundwater are trichloroethylene (TCE), perchloroethylene (PCE), carbon tetrachloride (CTC), perchlorate, and NDMA. TCE, PCE, and carbon tetrachloride are solvents used for degreasing and cleaning; perchlorate is a component of solid-fuel rockets; and NDMA is associated with liquid-fuel rockets. Other volatile organic compounds (VOCs) are also present, including the chemical 1,4-dioxane, which has been used as a stabilizer in chlorinated solvents. The peak contaminant concentration measured in groundwater at the site is 38,000 ug/l PCE; more than 7500 times the maximum contaminant level (MCL).

Remedial Investigation/ Feasibility Study (RI/FS), Record of Decision, and Explanation of Significant Differences (ESD)

From 1990 to 1993, EPA completed a remedial investigation and feasibility study for the site. The investigation included the compilation and analysis of sampling results from existing water supply wells, temporary reactivation and sampling of inactive water supply wells, installation of a 1,500-foot deep monitoring well (by EPA), installation and sampling of more than two dozen shallow groundwater monitoring wells (by Potentially Responsible Parties [PRPs]), development of a groundwater flow model of the aquifer, and preliminary discussions with local

water agencies over the role of local water agencies in the cleanup. In 1993, EPA issued its proposed cleanup plan.

EPA adopted a Record of Decision (ROD) for an interim remedy for the site in 1994 and updated the ROD in May 1999 with an Explanation of Significant Differences (ESD). The remedial objectives expressed in the ROD and ESD are to prevent future increases in, and begin to reduce, concentrations of groundwater contaminants in the Baldwin Park area by limiting further migration of contaminated groundwater into clean and less contaminated areas or depths that would benefit most from additional protection and by removing contamination from the aquifer. The ROD specifies extraction of contaminated groundwater at the downgradient end of two broad subareas of contamination, at locations and rates sufficient to hydraulically-contain contaminated groundwater moving through each subarea during all anticipated groundwater flow conditions. A secondary objective is to provide data necessary to determine final clean up standards for the aquifer.

Identification of Potentially Responsible Parties (PRPs)

The majority of the PRPs at the site were identified between 1990 and 1997. The PRPs were identified after a multi-year cooperative effort between EPA and the California Regional Water Quality Control Board, Los Angeles Region (RWQCB), which included inspections of more than 1,400 commercial and industrial businesses in the area and testing of soil or groundwater where contamination was observed or suspected. PRPs were identified using test results, historical Federal, State and local records, responses to information requests, and other information.

EPA Enforcement Efforts and EPA-PRP-Water Agency Negotiations

A PRP group performed initial planning and pre-design work from approximately 1995 to early 1997. During this period, negotiations continued with several regional and local water agencies over implementation of the cleanup plan. In 1998, the negotiations began to focus on a plan proposed by the Main San Gabriel Basin Watermaster (a court-appointed entity responsible for administering the water rights agreement in the San Gabriel Basin). The Watermaster Plan proposed that the treated groundwater be used locally, and that local agencies play a major role in designing, building, and operating the cleanup facilities. The Watermaster Plan was developed in response to the impacts of perchlorate and NDMA, which had forced the closure of additional public water supply wells in the area, leading to renewed local interest in using the treated groundwater produced by the cleanup.

In mid-1999, as PRP-water agency negotiations continued, EPA resumed Consent Decree negotiations with the PRPs. In September 1999, EPA received a "Good Faith Offer" from several of the PRPs to design, build, and operate the

cleanup facilities. EPA-PRP negotiations continued into early 2000 in an effort to translate the September 1999 offer into a binding commitment. By June 2000, however, negotiations had not produced agreements between EPA and the PRPs, or between the PRPs and the Watermaster. EPA concluded that negotiations alone were unlikely to produce an agreement and, on June 30, 2000, issued a Unilateral Administrative Order ("Order") directing the 19 PRPs to complete the remedial design and make arrangements for the construction and operation of the groundwater extraction wells, treatment systems, and related cleanup facilities.

The PRPs complied with EPA's Order, but the design work required by the Order was slowed by uncertainty over local involvement in the cleanup. Still unresolved in 2000 was the ultimate use of the treated groundwater, the selection of the perchlorate treatment technology, treatment facility locations, the extent to which existing water supply wells would be used as groundwater extraction locations, and the extent to which local water agencies would be involved in design and construction of the facilities.

In Fall 2000, negotiations between the PRPs and water agencies resumed, and in January 2001 a 25-page preliminary agreement was reached between six water agencies and eight of the PRPs. The agreement, known as the Memorandum of Understanding (MOU), calls for the PRPs to fund most of the cost of designing, building, and operating the groundwater extraction and treatment facilities called for in EPA's cleanup plan and for the water agencies to construct, own, and operate the facilities.

In March 2002, after lengthy negotiations, the PRPs and water agencies successfully translated the MOU into a binding agreement. Eight PRPs and seven water agencies signed the 300-page "BPOU Project Agreement," which was approved by the Los Angeles County Superior Court in May 2002. The agreement commits the PRPs to fund the design, construction, and operation of the groundwater extraction, treatment, and conveyance facilities needed to satisfy EPA's cleanup goals and meet local water supply needs. The water agencies and their contractors are completing most of the design and construction work, with EPA and PRP oversight. The PRP-water agency agreement not only addresses funding and work responsibilities, but provides criteria for selection of water treatment technologies, establishes a cost consultant and risk manager, describes contracting requirements, requires payment of management and performance fees, requires efforts to obtain public funds, includes audit and insurance requirements, requires the PRPs to repay the water agencies for the costs of many of the wellhead treatment systems installed over the last decade, resolves certain lawsuits, and provides dispute resolution procedures.

The Site Remedy

The remedy for the site is being constructed as four separate groundwater pump and treat systems, each ranging in capacity from 2,500 gallons per minute (gpm) to 7,800 gpm. Each system is designated as a separate operable unit of the San Gabriel Valley Area 2 Site. The extraction rates and locations were developed during the remedial design process using a numeric model of groundwater flow and particle movement in the aquifer. EPA determined that, as a long-term average, a total of 22,000 gpm of contaminated groundwater must be extracted at eight locations. Total treatment capacity will exceed 25,000 gpm, or 36 million gallons per day (MGD), of contaminated groundwater. The work has been "phased" to allow construction to begin on the initial subprojects as design work is completed on the later subprojects. Each subproject has or will have one or more groundwater extraction wells and a series of treatment processes including air stripping, ion exchange, and ultraviolet light (with hydrogen peroxide). The first of the four subprojects, the subject of this Remedial Action Report, is the La Puente Valley County Water District subproject. The other three subprojects are in design or construction. They are: the San Gabriel Valley Water Company B6 subproject, the Valley County Water District subproject, and the San Gabriel Valley Water Company B5 subproject.

Section II – Operable Unit Background

The subject of this Interim Remedial Action (IRA) Report is the La Puente Valley County Water District subproject, operable unit 02 of the San Gabriel Valley Area 2 site. The subproject is located at 1695 Puente Avenue in Baldwin Park, CA and owned and operated by a small public water agency known as the La Puente Valley County Water District (LPVCWD), which serves approximately 9,000 people in the cities of La Puente, Baldwin Park, and Industry in eastern Los Angeles County.

The targeted average groundwater extraction rate for the subproject is 2,250 gpm. Extraction rates can vary daily or weekly but are expected to average the targeted rate over time. Targeted rates for the four subprojects are listed in Table 1.

Table 1. BPOU Target Extraction Rate and Planned Capacity		
Subproject	Targeted Average Groundwater Extraction Rate	Planned Capacity
La Puente Valley County Water District subproject	2,250 gpm	2,500 gpm
San Gabriel Valley Water Company B6 subproject	6,750 gpm	7,800 gpm
Valley County Water District subproject	6,000 gpm	7,800 gpm
San Gabriel Valley Water Company B5 subproject.	7,000 gpm	7,800 gpm
TOTAL	22,000 gpm	25,900 gpm

The subproject was initially designed and constructed as a water supply facility by several local water agencies, without significant EPA involvement. The LPVCWD had historically operated three groundwater extraction wells and delivered the water to its residential and business customers with no treatment other than disinfection. Treatment systems were added in several phases as new contaminants were identified, as described below.

In 1991, the levels of TCE and CTC in LPVCWD's wells began to exceed the MCLs. In 1992, LPVCWD installed a 1,500 gpm air stripping tower to reduce the VOC concentrations. In 1994, the concentrations of TCE and CTC were increasing and 1,2-dichloroethane (1,2-DCA) was detected in the water supplyin excess of the MCL, prompting LPVCWD to install a second 1,500 gpm air stripping tower for VOC removal. The two air strippers are operated in parallel configuration. Each air stripper has an off-gas control unit containing vapor-phase granular activated carbon (GAC), permitted by South Coast Air Quality management District (SCAQMD). As groundwater flows over the packing materials in the towers, the VOCs in the air are stripped off. The air then passes through the off-gas control units to remove the VOCs from the air, and the clean air is released to the atmosphere.

In June 1997, perchlorate was detected at the LPVCWD well field above the Action Level (AL) set by the California Department of Health Services (DHS). Because the VOC treatment facilities did not remove perchlorate, all of the LPVCWD wells were removed from service and LPVCWD began purchasing its

water supply from nearby producers. Shortly thereafter NDMA and 1,4-dioxane were detected in LPVCWD water supply wells at concentrations above DHS ALs.

Treatment for perchlorate, NDMA, and 1,4-dioxane was then added. An ion exchange treatment facility manufactured by Calgon Carbon Corporation (Calgon) was installed to remove perchlorate. The system, known as the ISEP, consists of 30 resin-filled vessels (ion exchange columns) arranged in a carousel on a rotating frame, brine and rinse water systems, and a process control system. The ion exchange columns are rotated through a sequence of operations including adsorption, displacement, entrainment, rejection, regeneration, and rinse. These operations occur simultaneously as the carousel rotates. Perchlorate and other anions such as nitrate, sulfate and bicarbonate are transferred from the water to the resin during the adsorption process. These anions are later removed from the resin during regeneration. A seven percent sodium chloride solution is delivered to the ion exchange columns during the regeneration phase. Chloride ions displace perchlorate and other anions adsorbed on the resin, producing a waste brine stream containing high concentrations of perchlorate, nitrate, sulfate, bicarbonate and other anions. The concentration of total dissolved solids in the waste brine is approximately 25 parts per million (ppm).

An UV/oxidation treatment facility manufactured by Calgon was installed at the LPVCWD well field to remove NDMA and 1,4-dioxane from the contaminated groundwater. The technology, known as the Rayox system, consists of two towers in series and a process control system. Each tower contains 12 UV lamps. Each lamp is contained in a quartz sleeve which is kept clean by an automated sleeve cleaner. Destruction of 1,4-dioxane requires addition of hydrogen peroxide, which forms hydroxyl radicals in water. Under the influence of UV light, the hydroxyl radicals oxidize 1,4-dioxane. NDMA is destroyed by direct photolysis when exposed to UV light.

Perchlorate, NDMA and 1,4-dioxane treatment equipment was designed by equipment vendors based on maximum expected influent concentrations and non-detect effluent concentrations. The overall plant layout and design of piping, electrical, and instrumentation was designed and coordinated by Stetson Engineers Inc. (Stetson) and Alexander Engineers, Inc. (AEI) in accordance with the Uniform Building Code. Design review was performed by LPVCWD for the air strippers, ion exchange, and UV/oxidation units.

Construction was completed in 2000 and an amended permit from the DHS allowing operation of the subproject was received in 2001. The project was designed and built to be consistent with EPA's selected remedy. After execution of the BPOU Project Agreement in May 2002, the LPVCWD treatment facility was considered part of the site remedy.

In Fall 2001, testing was conducted to determine whether a low pressure UV/oxidation system manufactured by Trojan Technologies (known as the UVTerra system) could operate more economically than the original medium pressure Calgon Rayox. After testing and analysis, it was determined that UVTerra was more cost effective and the Rayox system was replaced. The low pressure system was designed by the vendor, Trojan, and plant layout was completed by Stetson and AEI. LPVCWD and the PRPs provided design review.

The LPVCWD subproject consists of two groundwater extraction wells, the above-mentioned treatment systems, and facilities to distribute the treated water for potable use. Table 2 summarizes construction details for the groundwater extraction wells. Table 3 lists the treatment system vendors and design criteria.

After treatment, water is conveyed to LPVCWD's 100,000 gallon Hudson Reservoir located at 15629 Hudson Avenue in La Puente, California and then distributed to LPVCWD's customers and to nearby water purveyors through various interconnections. Brine produced as a byproduct of the ion exchange process is currently discharged to a dedicated brine line operated by the Los Angeles County Sanitation Districts (CSD). Figure 2 shows a plan view of the treatment plant site.

Table 2. Construction Details -LPVCWD Groundwater Extraction Wells

	Capacity	Depth	Screen Intervals
Well No. 2	2,500 gpm	947 feet deep	multiple screened intervals from 600 to 940 feet
Well No. 3	2,500 gpm	800 feet deep	screened intervals from 620 to 770 feet.

Table 3. LPVCWD Treatment Equipment - Design Criteria and Vendors.					
Contaminants Treated	Technology	Vendor	Design Criteria		
			Influent Concentration	Effluent Concentration	Other
VOCs	Air Stripping	Hydro Group Inc.	Tower 1: 28.3 ug/l TCE 2.6 ug/l CTC Tower 2: 43.9 ug/l TCE 7.0 ug/l CTC 12.5 ug/l 1,2-DCA	Tower 1: < 0.5 ug/l TCE < 0.5 ug/l CTC Tower 2: < 0.5 ug/l TCE < 0.5 ug/l CTC < 0.5 ug/l 1,2-DCA	Tower 1: Air:water > 30:1 Tower 2: Air:water > 60:1
	Vapor Phase Granular Activated Carbon	Calgon Carbon Corporation	NA	NA	Tower 1: 7,000 lb GAC Tower 2: 20,400 lb GAC
Perchlorate	Ion Exchange ("ISEP" system)	Calgon Carbon Corporation	200-300 ug/l perchlorate	< 4.0 ug/l perchlorate	NA
NDMA and 1,4-dioxane	Ultraviolet light with peroxide	Trojan Technologies	3 ug/l NDMA, 3.4 ug/l 1,4-dioxane	< 0.002 ug/l NDMA, < 0.3 ug/l 1,4-dioxane	NA

SECTION III -- CONSTRUCTION ACTIVITIES

Permitting

A negative declaration was filed to address CEQA issues. The LPVCWD is a special district and therefore is not required to obtain building or grading permits. Prior to construction, encroachment permits were obtained from the City of Baldwin Park and the City of West Covina for installation of the brine pipeline. A permit was obtained for connection of the facility's brine line to the CSD industrial sewer line. In addition to the construction permits, a DHS water supply permit and a SCAQMD permit were required for the operation of the treatment facility. A National Pollutant Discharge Elimination System (NPDES) permit was also required and obtained for discharge of treated water during the startup and performance testing period. Both the water supply permit and NPDES permit applications were prepared by Stetson and reviewed by LPVCWD. The water supply permit requires sampling and testing of influent and treated water weekly. The NPDES permit required testing and reporting once a month if any discharges

were made, but LPVCWD has since notified the RWQCB that the NPDES permit is no longer needed. Discharges occurred only as part of startup and testing.

Perchlorate, NDMA and 1,4-dioxane Treatment Facility
The perchlorate, NDMA and 1,4-dioxane treatment facilities were constructed on empty land at the LPVCWD well field. The project consisted of the installation of ion exchange and ultraviolet (UV) oxidation equipment, construction of a new building to house the equipment, construction of a control/electrical room, construction of a waste brine pumping station, construction of a waste brine pipeline to the CSD brine line, and modifications to the existing piping and pumps at the well field to integrate the new processes.

Site Preparation
Site preparation activities included over-excavation, re-compaction, and grading of soils under the treatment Facilities. Excavation was performed where required for the waste brine pumping station, valve vaults, meter vaults, and pipe trenches.

Process Installation
An ISEP ion exchange system and Rayox UV system were purchased from Calgon by LPVCWD. This process equipment was installed on a reinforced concrete slab and housed in a new pre-engineered metal building constructed as part of the project. Connecting piping and wiring was constructed as part of the project.

Modifications to the Existing LPVCWD Treatment Facility
Prior to the beginning of the perchlorate, NDMA and 1,4-dioxane treatment facilities installation, LPVCWD operated two air stripper systems at the well field. Previously, the wells pumped raw water to the air strippers for treatment. The air strippers discharged the treated water to a wetwell where the water was then pumped to LPVCWD's Hudson Reservoir. The new treatment facilities utilized the existing wetwell as a booster station to lift the flow to the ISEP and Rayox systems with enough residual pressure to send the treated water to the Hudson Reservoir. The existing pumps had to be replaced with higher horsepower pumps to provide enough pressure to accomplish this.

Low Pressure UVTerra Treatment Facility
As noted in Section II, the Rayox system was replaced by the UVTerra system in 2002. The construction of the UVTerra system included a slab-on-grade and metal building to house the UVTerra equipment, a wetwell and pump station, and interconnecting piping to the Perchlorate treatment facility.

SECTION IV -- CHRONOLOGY OF EVENTS

Jul 1989	VOC contamination was detected at LPVCWD well field
Sep 1992	Air stripper No. 1 began operation
Mar 1994	EPA issued ROD for the BPOU
Sep 1995	Air stripper No. 2 began operation
Jun 1997	LPVCWD well field was shutdown because of perchlorate detection
Jul 1998	LPVCWD issued a Request for Proposal (RFP) for a perchlorate treatment facility.
1998	NDMA and 1,4-dioxane were detected in the groundwater at LPVCWD well field
Jan 1999	LPVCWD executed a contract with Calgon for perchlorate, NDMA and 1,4-dioxane treatment equipment
May 1999	RC Foster Corporation was awarded the construction contract and was given notice to proceed
May 1999	EPA issued ESD for the BPOU to include perchlorate, NDMA and 1,4-dioxane as contaminants of concern
Jan 2000	The construction of the perchlorate, NDMA and 1,4-dioxane was completed
Feb 2001	DHS issued Water Permit Amendment No. 04-16-01PA-000 to LPVCWD to operate the Treatment Facility
Mar 2001	The Treatment Facility began operation
Feb 2002	UVTerra system at LPVCWD was completed
Apr 2002	LPVCWD began supply water to SWS through interconnection
May 2002	Treatment with UVTerra began operation
May 2002	LPVCWD Treatment Facility became part of the BPOU project
Sep 2003	EPA conducted construction inspection

SECTION V -- PERFORMANCE STANDARDS AND CONSTRUCTION QUALITY CONTROL

The target average extraction rate at LPVCWD well field for hydraulic containment is 2,250 gpm. Table 4 shows the actual average production at LPVCWD well field and the percentage of the actual production against the target production from March 2001 to June 2003. Before May 2002, the Treatment Facility was operated to meet system demand. After LPVCWD became part of the BPOU project in May 2002, LPVCWD intended to operate its wells to fulfill the BPOU extraction requirements. However, due to the low well yield and periodic equipment malfunction, the actual average production rate has been lower than the target average production until July 2003. LPVCWD has been operating Wells No. 2 and No. 3 concurrently to meet the production

requirement, except during the period of January 2003 to March 2003 when LPVCWD took Well No. 3 out of service for rehabilitation.

Based on information available to date, we expect that the subproject is contributing to hydraulic containment of the targeted area of contamination in the BPOU, but insufficient performance data are available to determine whether the subproject is fully contributing to attainment of the operable unit's remedial objectives. The piezometers to be monitored as part of the performance standards evaluation program have not yet been installed and EPA has not yet approved recent changes to the groundwater flow model to be used for performance evaluation purposes. Attainment of remedial objectives will be discussed in the annual performance standards evaluation reports to be submitted in accordance with the BPOU Performance Standards Evaluation Plan.

Table 4. Target and Actual Monthly Production at LPVCWD Well Field

MONTH/YEAR	03/01	04/01	05/01	06/01	07/01	08/01	09/01	10/01	11/01	12/01
Target Production (gpm)	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
Actual Production (gpm)	636	846	1259	1213	1350	1487	1093	1272	1068	915
Percentage of The Target Production	28.3	37.6	56.0	54.0	60.1	66.1	48.6	56.6	47.5	40.7

MONTH/YEAR	01/02	02/02	03/02	04/02	05/02	06/02	07/02	08/02	09/02	10/02
Target Production (gpm)	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
Actural Production (gpm)	954	781	1161	1699	1721	998	1997	2034	1964	2235
Percentage of The Target Production	42.4	34.7	51.6	75.6	76.6	44.4	88.9	90.5	87.4	99.4

MONTH/YEAR	11/02	12/02	01/03	02/03	03/03	04/03	05/03	06/03	07/03	08/03
Target Production (gpm)	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
Actural Production (gpm)	2129	655	1450	995	1106	1650	2101	2215	2368	2453
Percentage of The Target Production	94.7	29.1	64.5	44.3	49.2	73.3	93.4	98.4	105	109

Raw water and treated water samples for PCE, TCE, CTC and 1,2-DCA have been collected and analyzed on a weekly basis. The analysis results show that the concentrations of PCE, TCE, CTC, and 1,2-DCA at LPVCWD well field have generally decreased but still exceeded the MCLs. No VOCs have been detected

in the treated water. The water quality analysis results show that the air strippers at LPVCWD are effective at removing the VOCs to non-detectable levels.

Raw water and treated water samples for perchlorate, NDMA and 1,4-dioxane have also been collected and analyzed on a weekly basis. Perchlorate, NDMA, and 1,4-dioxane have been detected in the treated water on occasion, however, this has been on individual samples and subsequent confirmation samples have indicated the contaminants were non-detect in the treated water. These detections appear to be aberrations. The water quality analysis results show that ISEP is effective in removing perchlorate and both Rayox and UVTerra with the addition of hydrogen peroxide are effective in removing NDMA and 1,4-dioxane to non-detectable levels. Detailed discussions of the technical performance of the Treatment Facility can be found in the April 2002 and June 2003 Technical Performance Reports for the LPVCWD Treatment Facility, as attached in Appendices A and B.

SCAQMD permit for the air stripper operation required the off-gas carbon change out when the concentration of organic vapors in the exhaust gas exceeds 0.049 parts per million, by volume (ppmv) measured as hexane. The air samples from the off-gas unit of each air stripper are collected and analyzed on a quarterly basis. It was determined that the GAC in the off-gas unit is to be replaced every 80 to 90 days to fulfill SCAQMD permit requirement.

CSD requires quarterly sampling and analysis of the waste brine generated by ISEP at LPVCWD. Quarterly samples for VOCs, perchlorate, pH, suspended solids, sulfide, chemical oxygen demand, oil and grease are collected and analyzed and the results are submitted to CSD on an annual basis.

All water and air quality samples are analyzed using EPA or DHS approved methods at a DHS certified laboratory. Appropriate quality assurance and quality control are applied to all the samples analyzed.

The construction work was inspected daily by Stetson for compliance with the plans and specifications. Material testing was performed for all concrete placed at the site. Inspections were also conducted by DHS during the startup and performance testing period in the summer to fall of 2000.

During start up testing, samples of the raw water and treated water were taken regularly to assure the proper operation of the plant and to comply with discharge requirements from the RWQCB. The equipment contracts required that the installed equipment meet the design performance criteria. Testing at startup and throughout the warranty period for the equipment ensured that the constructed facilities met the design criteria.

SECTION VI -- FINAL INSPECTION AND CERTIFICATIONS

EPA conducted the EPA certification inspection on September 11, 2003. DHS issued a Permit Amendment No. 04-16-01PA-000 to LPVCWD on February 15, 2001 to operate the Treatment Facility and use the treated water as the source of drinking water supply. DHS again issued a Permit Amendment No. 04-16-02PA-000 to LPVCWD on May 8, 2002 to replace Rayox with UVTerra. As one of the conditions of the permit amendments, LPVCWD is required to prepare an annual technical performance report of the Treatment Facility. The Technical Performance Reports dated April 2002 and June 2003 have been submitted to DHS for review and are included in Appendices A and B. In addition, Trojan performs a quarterly inspection of the UVTerra equipments.

SECTION VII -- OPERATION AND MAINTENANCE ACTIVITIES

The scheduled routine maintenance activities for LPVCWD Treatment Facility is shown on Table 5.

Table 5. Summary of Routine Maintenance and Specification

FREQUENCY	SYSTEM NAME	PARTY IN CHARGE	ACTION REQUIRED
Daily	ISEP	LPVCWD Staff	1. Inspect for leakage 2. Wash down as necessary 3. Inspect pumps on the ISEP brine skid for proper operation 4. Check the pressure loss across the ISEP bag filter. If the loss is a few pounds above 2 psi, replace the bag filter
	UVTERRA	LPVCWD Staff	5. Inspect the following items a. Operating conditions as listed on the System Control Center (SCC) b. Control Panel c. Alarm present on the "Alarm Status" Screen on the SCC d. Inlet valve position relative to position indicated on the SCC e. Review Rotational Unit (RU) control screen to ensure there are no lamp failures 6. Update system operating log
Weekly	ISEP	LPVCWD Staff	1. Wash down the ISEP System (turntable and vessels) at least once per week. After washing units, the hose is to be disconnected to avoid potential cross-connection.

Monthly	ISEP	Maintenance Contractor	1. Inspect ISEP gear reducer for oil leaks and oil level
	UVTERRA	Maintenance Contractor	2. Complete all items on the attached UVTERRA reactor Maintenance Checklist a. Performance Review b. Stop Events c. Cleaning Inspection c. Start Events d. 8760 hours lamp maintenance
	Air Stripper	LPVCWD Staff	3. Complete the followings on Blower and Accessories a. Correct the alignment of the sheaves b. Tighten belts if loose c. Replace belts if worn or cracked d. Clean and/or change the air filters e. Lubricate motor and fan bearings f. Replace flexible ductwork connections if worn or cracked
	Booster Pumps	LPVCWD Staff	4. Grease packing box 5. Inspect pump installation for performance, change in noise or vibration level, loose bolts or piping, direct and corrosion. 6. Booster pump bearings and motors are inspected daily for signs of imminent failure. Booster pumps and motors should have a life of beyond five years of normal use based on maintenance history
Quarterly	Air Stripper	Maintenance Contractor	1. Check percent carbon exhaustion. If the concentration in the exhaust gas exceeds 0.049 ppmv measured as hexane, Schedule for replacement.
	ISEP	Maintenance Contractor	1. Lubricate the rotating head (Avon) bearing 2. Lubricate the idler gears 3. Inspect pumps on brine skid a. Containment shell b. Impeller assembly c. Front casing liner d. Shaft
	UVTERRA	LPCWD Staff	1. Take each UVTERRA reactor offline and remove each operating RU to visually inspect lamp sleeves for fouling. If fouling is present, remove rotational unit via the overhead crane and clean in acid tank for 30 minutes with blower/agitation system running.

Six Months	ISEP	Maintenance Contractor	1. Clean shafts and vent plugs on gear reducer to prevent foreign particles from entering seals on the gear case. 2. Lubricate the turntable wheel support bearings 3. Lubricate the turntable center post bearing 4. Check all bolts and nuts on the turntable. Tighten any that have Loosened. 5. Change the oil in the turntable drive (Oil change interval is 6 months or 2,500 hours, which ever comes first) 6. Inspect the outer magnet assembly on the pumps located on the brine skid. 7. Inspect Cla-valve for proper operation.
Annual	Air Stripper	LPVCWD Staff	2. Check the followings on tower foundation a. the condition for evidence of setting (cracking, buckling, etc. b. the anchoring system for secureness
		LPVCWD Staff	3. Complete the following on packed tower a. check shell and piping for leaks and wear b. clean air outlet screens c. tighten bolts on flanged connections d. examine gasket material. Replace if cracked, worn, or leaking e. clean the mist eliminator of large particles f. visual inspection of packing for discoloration and /or bridging g. look at distributor tray and sump for staining and/or deposition h. remove debris from the distributor tray and sump floor
8760 Hours	UVTERRA	Trojan Technolgies	1. Remove and replacement of UV lamps. Follow the procedures outlined in the UVTERRA O&M Manual for replacing the UV lamps and inspecting the quartz sleeves, replacing the sleeves if necessary, and restarting the system
	Booster Pumps	LPVCWD Staff	4. Lubricate the electric motor bearings

OIL SPECS

Rotating Head Bearing Lubrication: EP Zero Grease

Idle Gear Lubrication: EP Zero Grease

Valve Gear Drive Lubrication: Texaco Meropa 220, AGMA 250.04/5 EP SAE 90 Gear Lubricant, Project Code 02321.

Valve Case Gear Oil: EP 90, Viscosity Index 95 minimum per ISO 3448.

FILTER SPECS

Brine Waste Inline Filter - Speical Plastics Systems, Inc. GF 161305689 3" 30 Mesh Orange

The source of water supply to the Treatment Facility between March 1, 2001 and August 14, 2002 was exclusively from LPVCWD Well No. 3. However, Well No. 3 was producing only 1,600 gpm. LPVCWD activated Well No. 2 on August 15, 2002 and operate Wells No. 2 and No. 3 together to provide up to 2,500 gpm of water to the Treatment Facility. On January 9, 2003, LPVCWD took Well No. 3 out of service for rehabilitation. On March 27 2003, Well No. 3 returned to service and since then Well No. 2 and No. 3 have been operated together to provide water to the Treatment Facility. The Treatment Facility was taken out of service on several occasions which are discussed below:

- The Treatment Facility is taken out of service once a quarter for about 12 hours for GAC change out in the air stripper off-gas units

- An encoder pulley froze on June 28 and 29, 2001 due to corrosion and required freeing. This left the Treatment Facility inoperable for 35 hours.

- Excessive scaling on main ports No. 25, 26 and 27 of the ISEP modules and brine line piping caused extensive blockage and required replacement of each of the three ports and 40 feet of piping on the brine line. The scaling problem was identified on June 29, 2001 and corrected on July 1, 2001 and required the Treatment Facility to be shutdown for 37 hours. LPVCWD subsequently installed an acid injection system with a Pulsatron 11 gpm pump, and piping was installed in late September, 2001 on the ISEP brine discharge line to reduce the pH of the water and minimize potential future scaling problems.

- A Culligan water softener regeneration valve failed on August 30, 2001 and caused the Treatment Facility to be out of service for 156 hours. The Treatment facility returned to service on September 6, 2001. LPVCWD now checks the valve occasionally to ensure such a failure would be minimized in the future.

- The scaling led to failure of one of the waste brine pumps on September 19, 2001. The waste brine pump was removed and replaced, and required the Treatment Facility to be shutdown for 12 hours.

- During September 19 and 20, 2001, the Treatment Facility was shutdown due to a waste brine-line blockage. Sulfuric acid was used to unplug the waste discharge line.

- On October 12, 2001, the motor on Well No. 3 failed and the Treatment Facility was shutdown for 3 days. The motor was repaired t
- hen re-installed on Well No. 3 on October 15, 2001.

- During Treatment Facility startup on November 19, 2001, a treated water "valve open" failure occurred. The problem was a loose wire, and was repaired. The Treatment Facility resumed operation on November 20, 2001. The Treatment Facility was out of service for 12 hours.

- During startup on December 28, 2001 a treated water "valve open" failure occurred. The problem was a damaged electrical relay, which was replaced. The Treatment Facility resumed operation on December 28, 2001. The Treatment Facility was out of service for 12 hours.

- On both December 30, 2001 and January 16, 2002, the Treatment Facility was shutdown due to a waste brine-line blockage. A sulfuric acid solution was used to unplug the line.

- A seventy-two hour shutdown was caused by a thrust bearing failure on the wet well booster pump No.1 on February 4, 2002. The booster pump motor was rebuilt and the Treatment Facility resumed operation on February 7, 2002.

- ISEP turntable was misaligned several times between March 1, 2002 and April 30, 2003 due to the wear and tear of the rotating devices as the result of continuous operation. On April 23, 2002 the Treatment Facility was taken out of service for 48 hours to fix the encoder on the turntable. On May 22, 2002 the Treatment Facility was taken out of service for 36 hours to replace the faulty encoder. On June 5, 2002 the Treatment Facility was taken out of service for 96 hours to tighten up the ISEP turn table timing belt and on June 14, 2002 the Treatment Facility was taken out of service for 72 hours to replace the ISEP turntable timing belt. In November 2002 the Treatment Facility was taken out of service for 48 hours to rebuild the turntable pulley.

- The Treatment Facility was taken out of service on April 23, 2002 because of the blockage caused by scaling at the effluent ports of ISEP vessels No. 25, 26 and 27 and the waste brine piping. LPVCWD replaced each of the three ports and 30 feet of piping between the effluent ports and the waste brine filter. The Treatment Facility was out of service for 48 hours.

- The transition from Rayox to UVTerra took seven days between May 28, 2002 to June 4, 2002, during which time the Treatment Facility was shutdown.

- On August 29, 2002, a faulty signal indicated that too few rotational units were available for operation of the UVTerra and the system shut down automatically. LPVCWD contacted Trojan to resolve the problem. It was determined to be a programming error of UVTerra's control system. The UVTerra control board was re-installed and the Treatment Facility returned to service after 21 hours.

- The Treatment Facility was again taken out of service on December 3, 2002 because of scaling in the waste brine line. Calcium carbonate deposit sealed off the entire cross section of the waste brine line. With the assistance from a contractor, LPVCWD cleaned the waste brine line by injecting a 31 percent hydrochloric acid solution at the waste brine pump station. The CSD's sewer receiving station was closed to allow recirculation of the acid in the pipeline to dissolve calcium carbonate precipitate. Scaling in the waste brine line was adequately removed after about two weeks of acid wash and the Treatment Facility returned to service on December 22, 2002. The Treatment Facility was out of service for 19 days.

- During March 2003, air stripping tower No. 2 failed when the circuit breaker on the blower tripped and caused the entire Treatment Facility to shutdown. The circuit breaker was reset and the Treatment Facility returned to service after four hours.

In addition, LPVCWD had received red water complaints from its customers many times since the beginning of the operation of the Treatment Facility. ISEP removes perchlorate in the raw water along with carbonate and bicarbonate, which reduce the pH and alkalinity of the treated water. The treated water became more aggressive as the pH is lower. Because the distribution system of LPVCWD consists mostly of galvanized steel pipeline, the red water complaints appear to be the result of galvanized steel pipeline corrosion.

McGuire Environmental Consultants, Inc. (McGuire) recommended adding between 6 mg/l to 15 mg/l of caustic soda (sodium hydroxide) to the treated water to raise the pH value as the first step to resolve the red water issue. LPVCWD installed a 94 gallon per day (gpd) variable speed pump and a 900 gallon sodium hydroxide storage tank at the Treatment Facility and began injecting a 50 percent sodium hydroxide solution to the treated water in August 2001.

Customer complaints decreased following the addition of sodium hydroxide but continued periodically. Subsequently, McGuire recommended using a 15 percent orthophosphate and 85 percent polyphosphate blend at a dosage of 4 mg/l to further reduce or eliminate corrosion. LPVCWD installed a 45 gpd variable speed pump and began injecting the ortho/poly phosphate blend to the treated water at Hudson Reservoir on May 15, 2002.

Subsequent water quality analyses results for samples collected in the distribution system show that the concentration of iron has reduced from over 1,000 ug/l to below 20 ug/l following the addition of the ortho/poly phosphate blend. In addition, there has not been any customer complaints regarding red water since August 2002. Therefore, the addition of sodium hydroxide and ortho/poly phosphate blend appears to be effective in controlling red water.

SECTION VIII -- SUMMARY OF PROJECT COSTS

Capital Costs

Project capital costs were estimated in the 1999 ESD to be approximately $7.3 million. A breakdown of this estimate is included in Appendix C. These costs were based on a treatment of 1,500 gpm.

Actual capital costs for the Treatment Facility completed in 2002 totaled $7.5 million for treatment of 2,500 gpm. Summaries of these costs are included in Appendix C and include engineering, project support, construction, process equipment, start up testing, and laboratory analysis.

Federal funding for the project was received through the U.S. Bureau of Reclamation in the amount of $1.8 million.

EPA oversight costs were minimal, because LPVCWD Treatment Facility was originally constructed as a water supply project.

Operations and Maintenance Costs

Project Operations and Maintenance (O&M) costs were estimated in the 1999 ESD to be approximately $1.2 million per year for an average flow of 1,500 gpm and resulting in a cost of approximately $466 per acre-foot. A breakdown of this estimate is included in Appendix C.

The Treatment Facility has been in operation since March of 2001. Monthly O&M costs from March 2001 through August 2003 are listed in Appendix C. A breakdown of treatment plant O&M costs based on actual costs through August 2003 is also included in Appendix C; based on 2,250 gpm, the calculated cost per acre- foot equates to approximately $359 without adjusting for the production

costs. The annual O&M costs for 2003 were estimated earlier this year at $1.9 million for an average flow rate of 2,250 gpm, whereas the actual O&M costs for the nine months ending August 2003 on an annualized basis equate to $1.64 million. Based on the $1.64 million, the calculated cost of treated water equates to approximately $451/acre foot for an average of 2,250 gpm, which is below the estimated $527 per acre foot based on the $1.9 million. These results are reasonably consistent with the LPVCWD calculated costs of $422 for 2,500 gpm.

SECTION IX -- OBSERVATIONS AND LESSONS LEARNED

1. In a side-by-side comparison, Low Pressure UV Technology was more economical to operate than Medium Pressure UV Technology.

2. The waste brine produced by the ion exchange system calcified in various process pipelines. The pH of the waste brine needs to be adjusted to reduce the potential for scaling. Heavy scaling occurred in the waste line where water softener waste was mixed with waste brine from the ion exchange.

3. The ISEP ion exchange system requires the influent water to pass thorough 10 micron bag filters. These filters tend to plug and need replacement on a daily basis. The system at LPVCWD was equipped with only one filter vessel. A second filter vessel was added to keep the system running while filters in the other vessel are changed.

4. When the plant began permitted operations, LPVCWD received complaints of "red water". It was determined the ISEP ion exchange process removes carbonate and bicarbonate in the treated water, which reduces pH and alkalinity. The lower pH made the treated water more aggresive. Because LPVCWD's distribution system consists mostly of old galvanized steel pipe, the red water complaints appeared to be result of galvanized steel pipe corrosion. The pH of the treated water is now raised by the addition of sodium hydroxide and the corrosion of pipelines is further controlled by the addition of 15 percent orthophosphate and 85 percent polyphosphate blend. There have been no complaints on red water since August 2002.

5. The ISEP system consumes approximately 10 tons of salt per day. The salt tanks have a total active storage available for plant operations of 35 tons or roughly 2 to 3 days before having to order more salt. Salt is usually ordered every Monday, Wednesday, and Friday. Salt deliveries arrive on site approximately 3 days after

requested. Deliveries are received in 25 ton truck loads. If the system should shut down for several days, after ordering a truck load of salt, LPVCWD will not have adequate capacity to store 25 tons of delivered salt. Therefore additional salt storage capacity at the facility would have been beneficial.

6. During the first year of operation the inlet piping to the ISEP equipment experienced calcification. Calgon added acid injection into selected ports to reduce the potential for calcification.

7. Some components of the ISEP equipment such as the gear box and proximity switches required replacement. LPVCWD now stocks these spare parts in order to reduce the down time when repair or replacement is necessary.

8. As required by SCAQMD permit, the exhaust from the air stripper off-gas units was evaluated and recommendations were made to change out the carbon approximately every 80 to 90 days.

SECTION X -- CONTACT INFORMATION

The Cooperating Respondents (CRs) and Water Entities (WEs) used the following contractor for the remedial action:

Bob Foster
R.C. Foster
1751 California Avenue, Suite 101
Corona, CA 92878

(909) 738-8211

The EPA used the following contractor for oversight of the remedial action:

CH_2M Hill
Attn: David Towell
5370 Kietzke Lane, Suite 200
Reno, NV 89511

(775) 329-7238

Contract Number: 68-W-98-225
Work Assignment Number:005-RXBF-09M5 and 015-RXBF-09M5

The following companies analyzed samples:

Weck Laboratories, Inc.
14859 East Clark Avenue
City of Industry, California 91745

(626) 336-2139

The Project Manager for the CRs and WEs

Steve Johnson
Stetson Engineers, Inc.
3104 East Garvey Avenue
West Covina, CA 91791

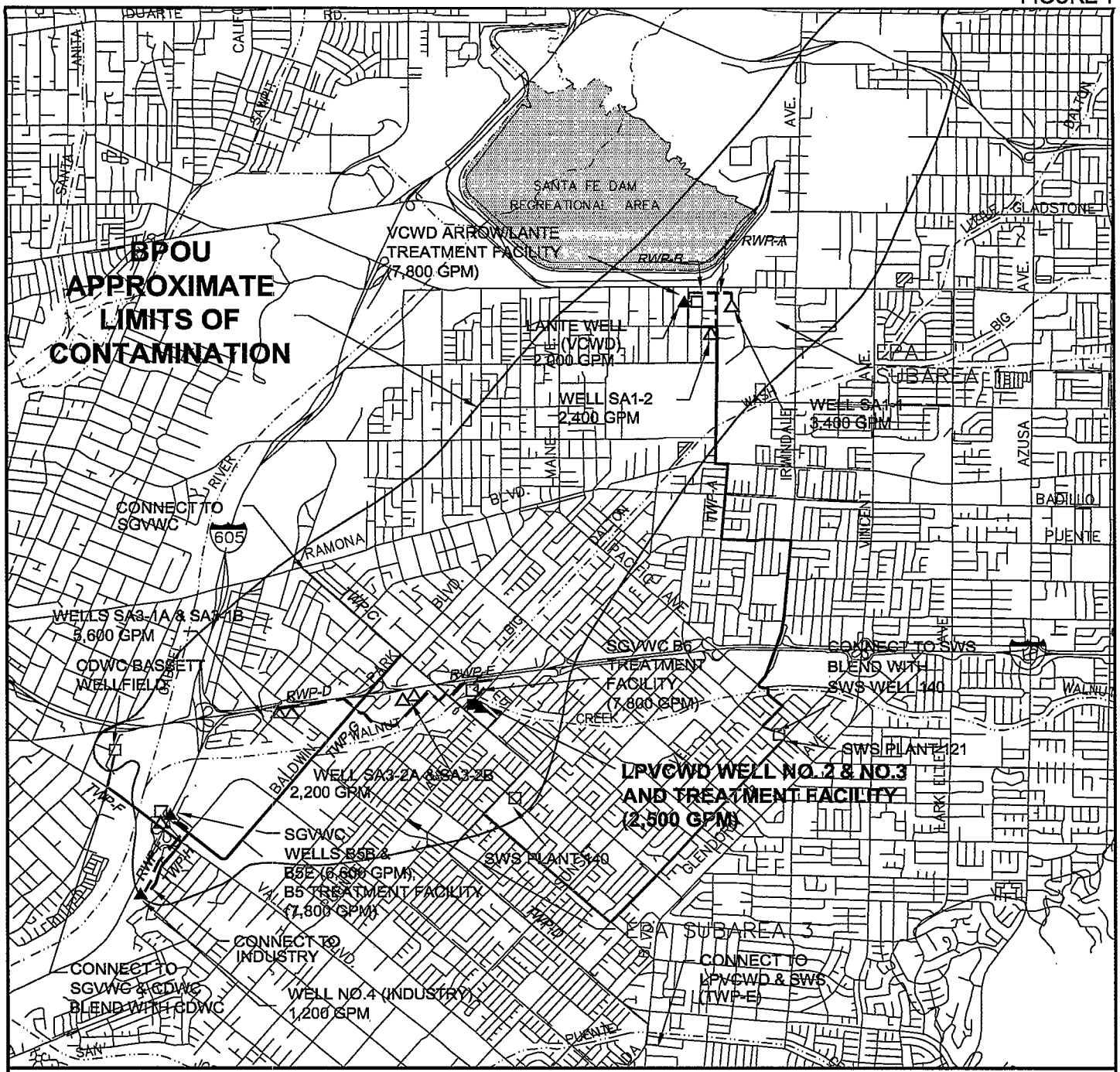
(626) 967-6202

The Project Manager for the EPA

Wayne Praskins
U.S. EPA Region 9
75 Hawthorne Street (SFD-7-3)
San Francisco, CA 94105

(415) 972-3181

FIGURE 1



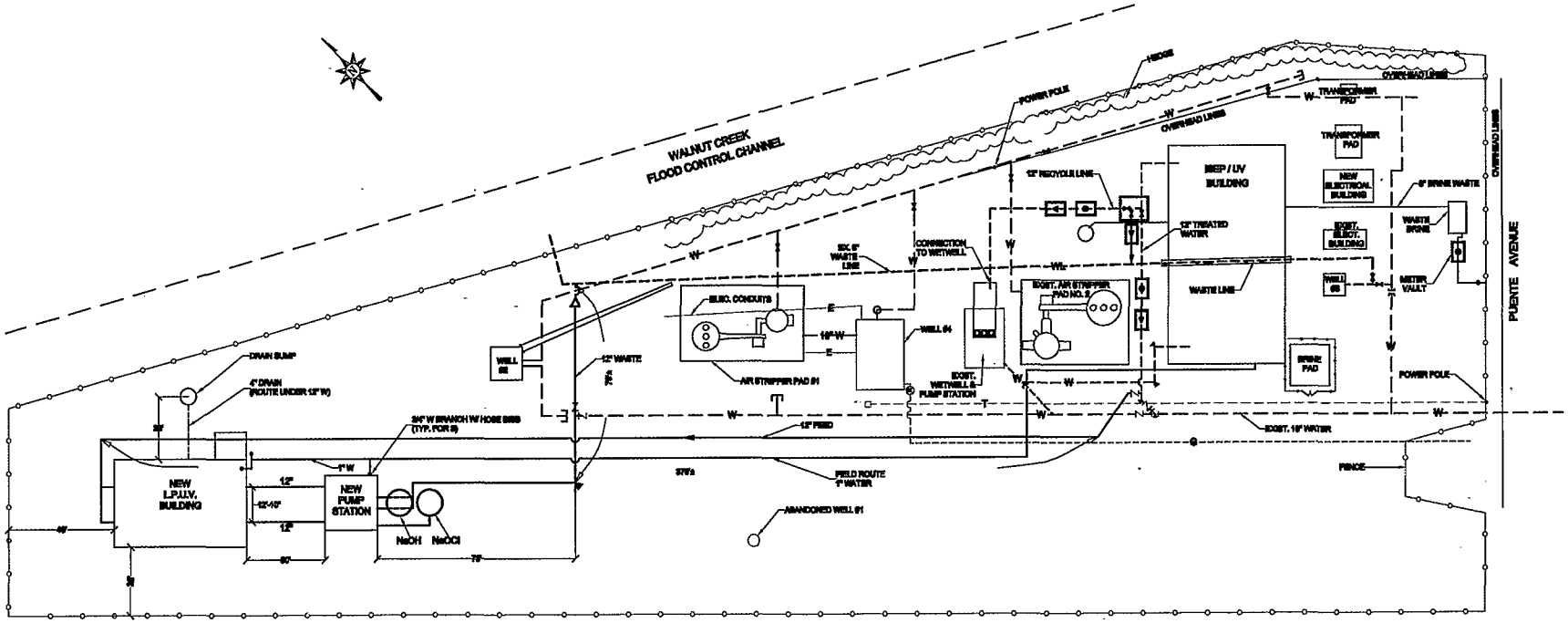
STETSON ENGINEERS INC.
861 VILLAGE OAKS DRIVE, SUITE 100
COVINA, CALIFORNIA 91724
TEL: (626) 967-6202
FAX: (626) 331-7065
2171 E Francisco Blvd., Suite K
San Rafael California 94901
2851 W Guadalupe Rd., Suite A209
Mesa Arizona 85202

BALDWIN PARK OPERABLE UNIT - PROJECT AGREEMENT SCOPE OF WORK

EXTRACTION PLAN
WELLS, PIPELINES, & PUMP RATES

E:\JOBS\1960\01\FIGURE_1.DWG
E:\JOBS\1960\01\FIGURE_1.PC2

FIGURE 2



STETSON ENGINEERS INC.

LA PUENTE VALLEY COUNTY WATER DISTRICT

SITE PLAN

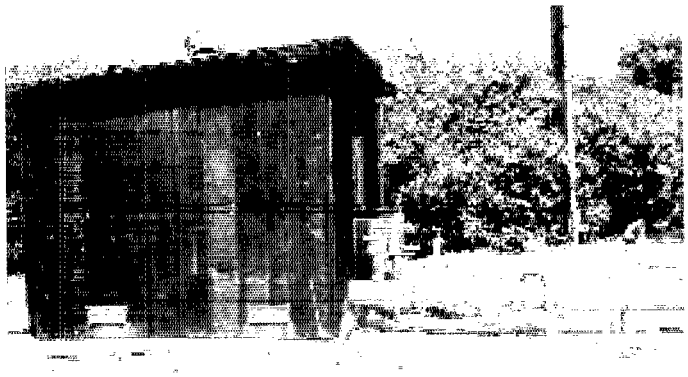


Photo 1
Well No. 2

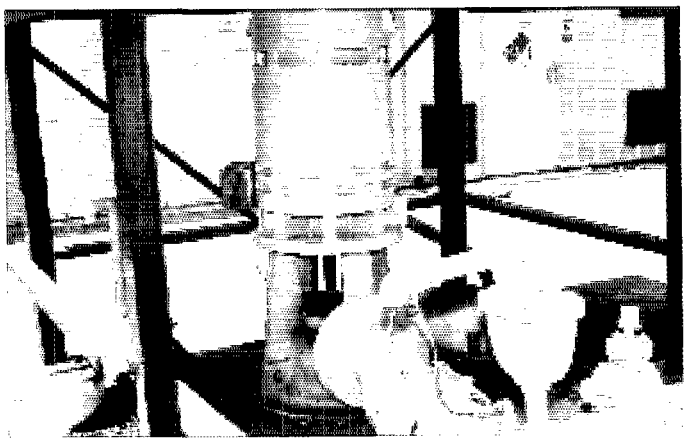


Photo 2
Well No. 3

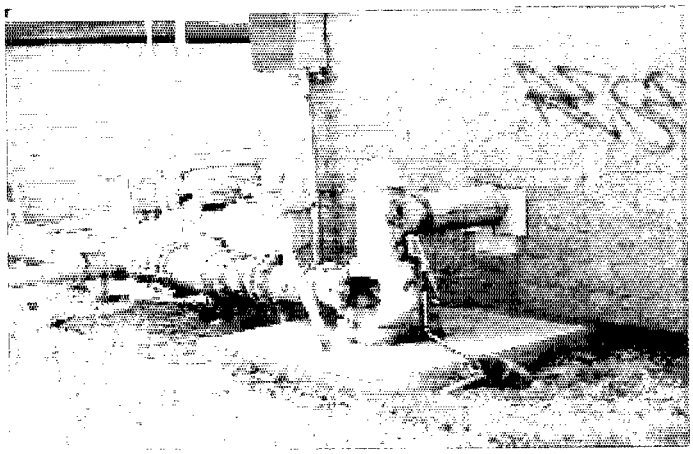


Photo 3
Well No. 4

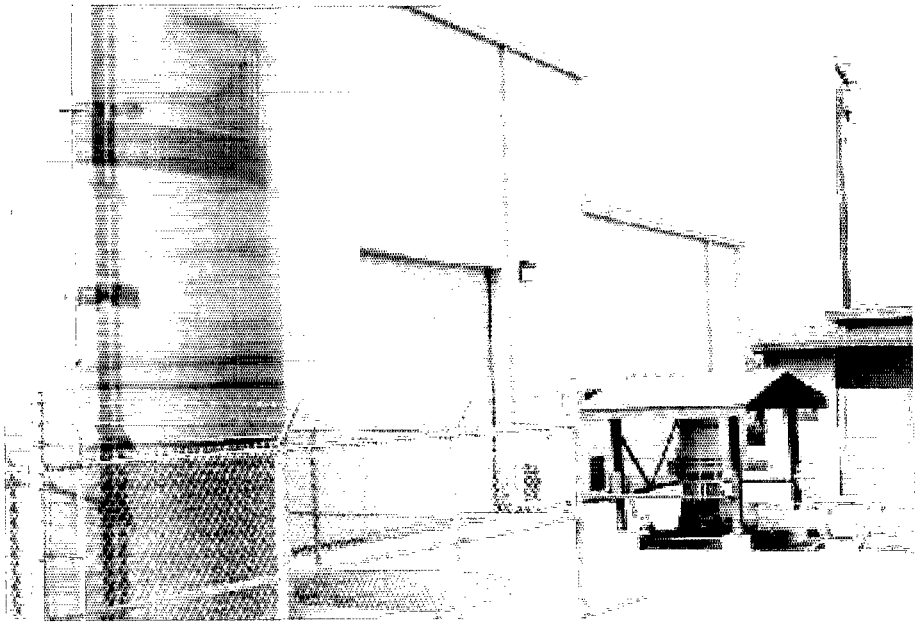


Photo 4
Well No. 3 & Ion Exchange Facility

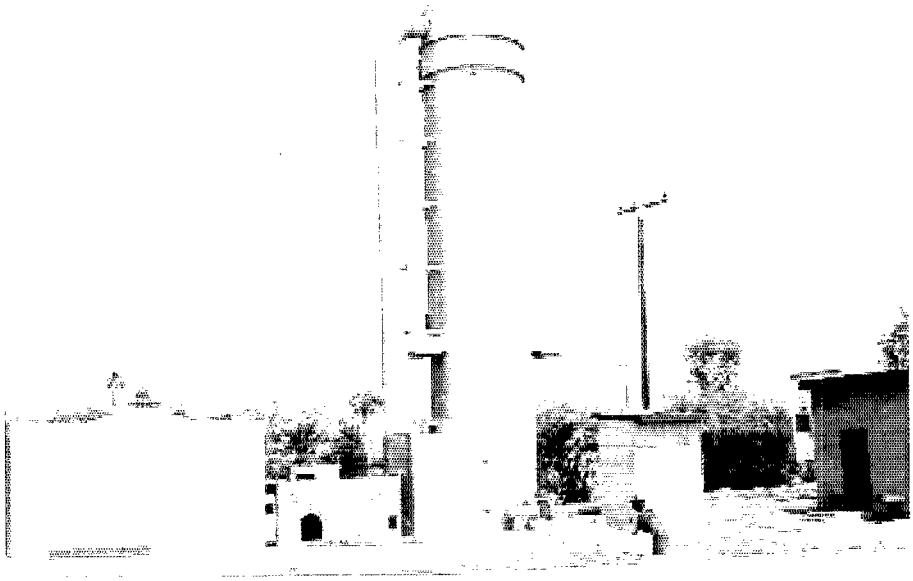


Photo 5
Air Stripper System No. 1

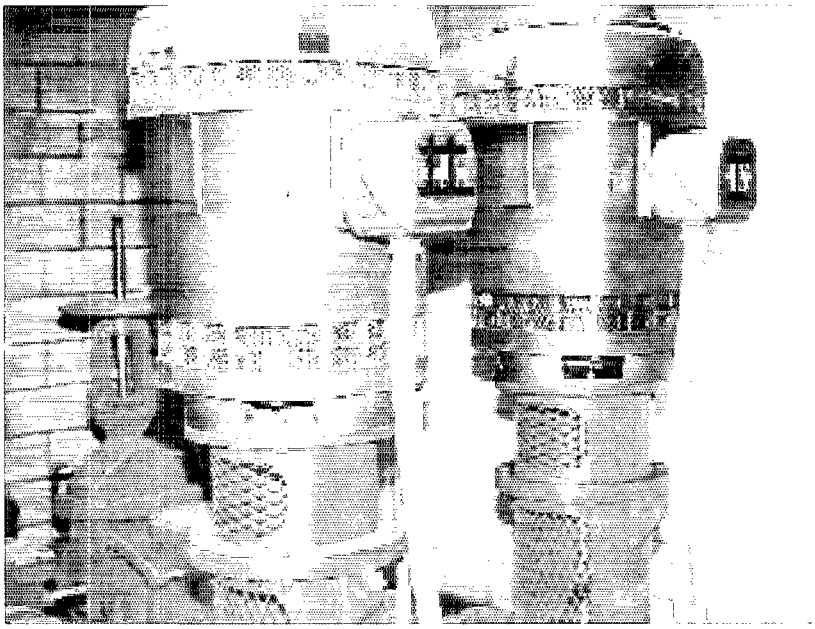


Photo 6
100 HP Booster Pumps

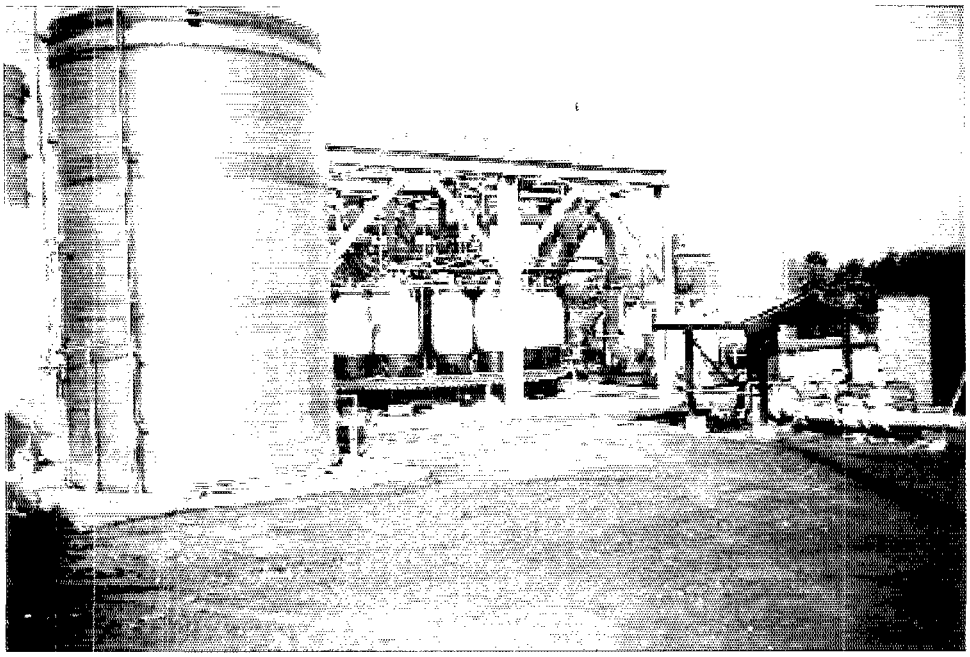


Photo 7
Ion Exchange System (Under Construction)

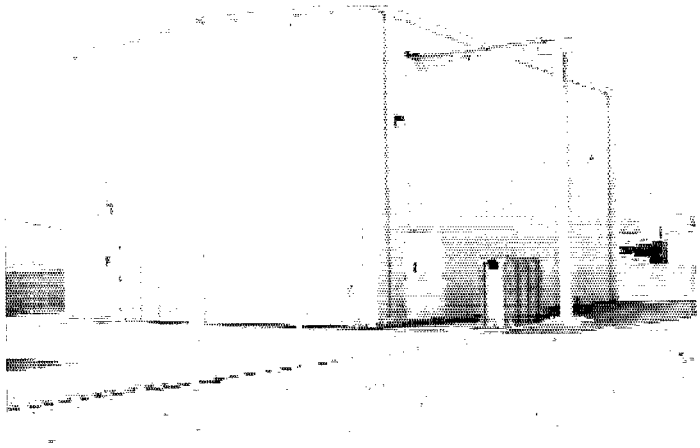
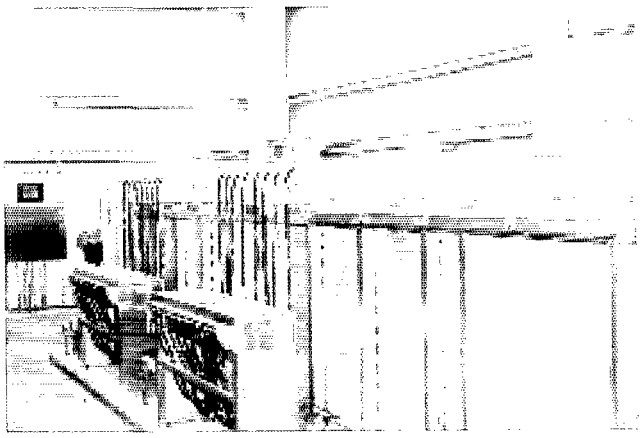
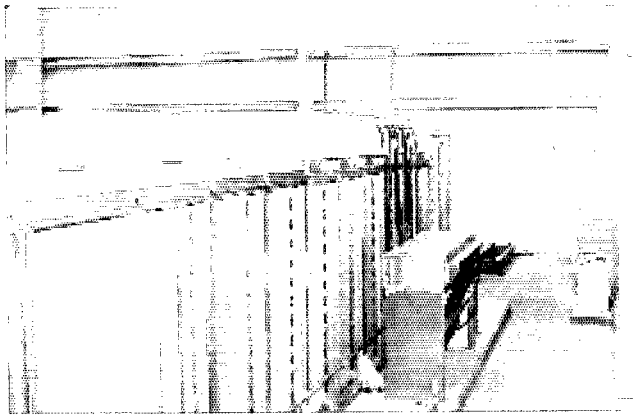


Photo 8
UV Treatment Facility





Photos 9 and 10
Low Pressure UV Reactors

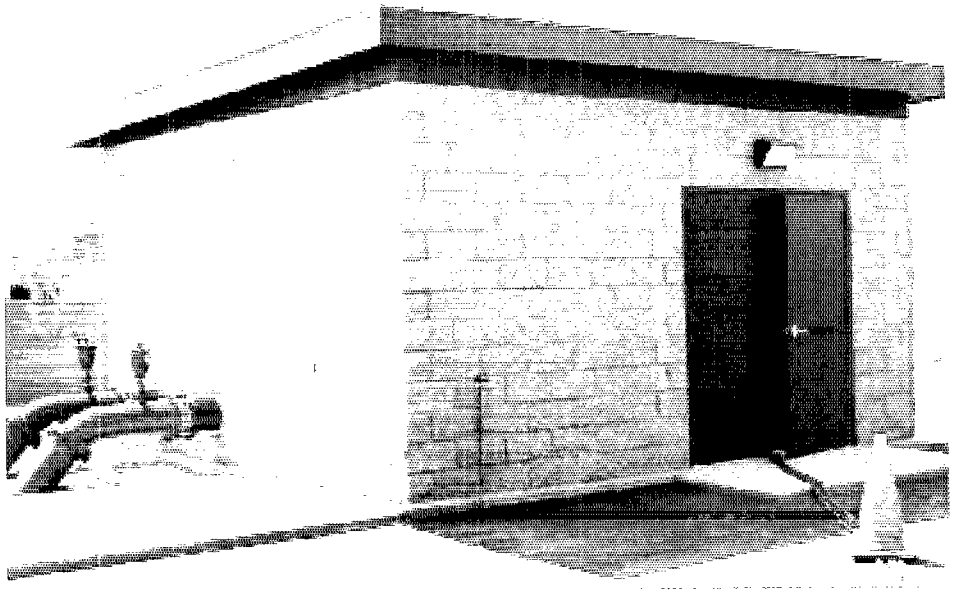


Photo 11
Low Pressure UV Pump Station

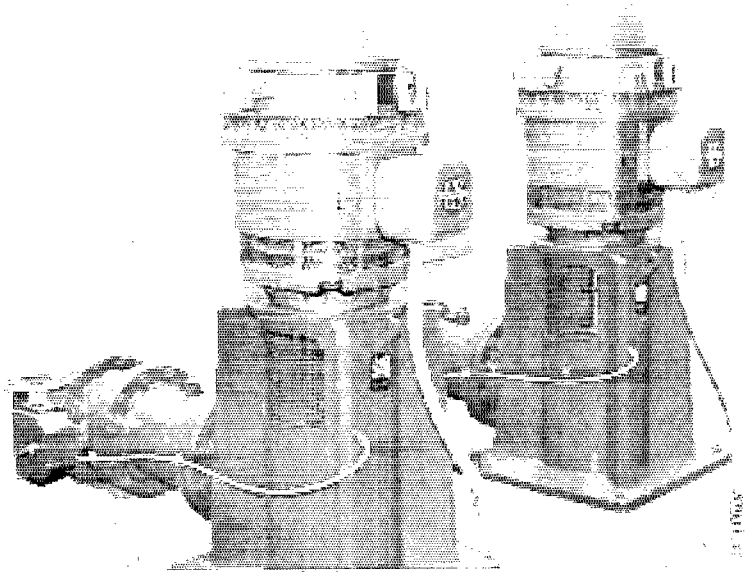


Photo 12
Low Pressure UV Effluent Pumps

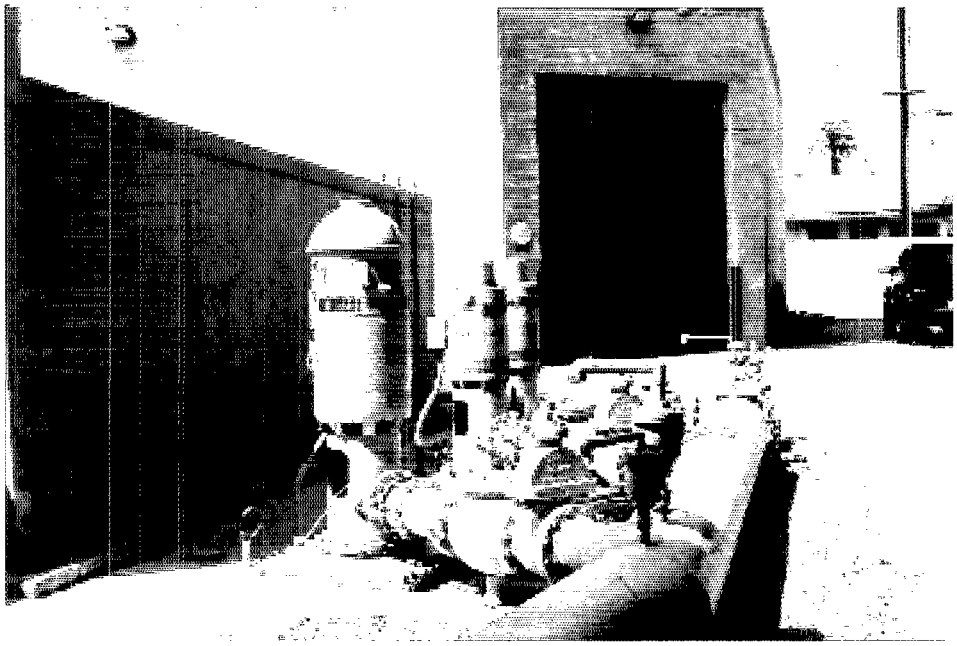


Photo 13
Hudson Booster Station

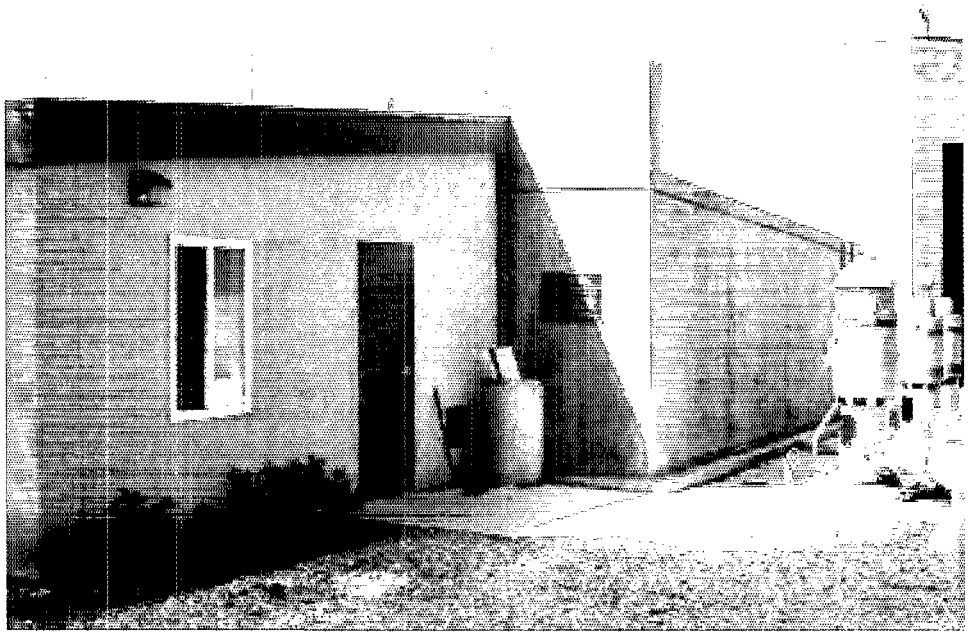


Photo 14
Hudson Reservoir Facility

APPENDIX A

TECHNICAL PERFORMANCE REPORT

FOR THE

LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT FACILITY

APRIL 30, 2002

STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

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NDMA; 1,4-Dioxane Treatment Facility (Rayox) 9
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Conclusions and Recommendations 16

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SECTION I
BACKGROUND

Introduction

The California Department of Health Services (DHS) issued Water Permit Amendment No. 04-16-01PA-000 to La Puente Valley County Water District (LPVCWD) on February 15, 2001 for operation of its Treatment Facility which is located at 1695 Puente Avenue in the City of Baldwin Park, as shown on Plate 1.

The Treatment Facility consists of air stripping towers to treat Volatile Organic Compounds (VOCs). Ion Separation (ISEP) was used to treat Perchlorate and ultraviolet light/oxidation (Rayox) was used to treat N-nitrosodimethylamine (NDMA) and 1,4-Dioxane. The general treatment process is shown on Plate 2.

Treatment Facility Permitting Process

LPVCWD submitted an Impaired Source Evaluation report pursuant to DHS Policy Memorandum 97-005 to operate the Treatment Facility and use the treated water as the source of drinking water supply. The final report was dated, December 2000. On February 6, 2001 a Public Hearing was held to address the LPVCWD Treatment Facility, raw and treated water quality, safeguards and water quality monitoring requirements. DHS issued Water Permit Amendment No. 04-16-01PA-000 on February 15, 2001 to LPVCWD. A condition of the Permit Amendment is to provide a Technical Performance Report at the end of one full year of operation. The Treatment Facility began operation on March 6, 2001. This technical report encompasses the period March 1, 2001 through February 28, 2002.

Permit Provisions

1. Permit provision number 5 requires LPVCWD to submit verification that the resin used in the ISEP module is National Sanitary Foundation (NSF) standard 61 approved.

   The ISEP resin is approved according to NSF standard 61 and a copy of the certification appears in Appendix A.

2. Permit provision number 6 requires LPVCWD to submit verification that all additives (e.g. hydrogen peroxide) are NSF standard 60 approved.

   The Treatment Facility uses hydrogen peroxide, sodium chloride and chlorine. The NSF standard 60 certification for hydrogen peroxide is in Appendix B.

The NSF standard 60 certification for sodium chloride is in Appendix C. The NSF standard 60 certification for chlorine is in Appendix D.

3. Permit provision number 9 requires LPVCWD to install flow sensors for the hydrogen peroxide and chlorine metering pumps. The sensors shall be connected to LPVCWD's Central Computer System (CCS) with high and low level alarms.

   LPVCWD installed an Effector model ST 1604 flow sensor on the hydrogen peroxide metering pump in November 1999 and it was connected to LPVCWD's CSS in August 2001. The sensor low level alarm is at no flow.

   LPVCWD installed a Pulsatron model FV-1 flow sensor on the chlorine metering pump in November 1999 and it was connected to LPVCWD's CCS in August 2001. The sensor also includes a low level alarm setting at no flow.

4. Permit provision number 10 requires LPVCWD to electronically connect the chlorine residual analyzer in August 2001 to its CCS with high and low level free chlorine concentration alarms.

   LPVCWD connected a US Filter Corporation Depolox plus chlorine residual analyzer with dual inputs for free chlorine and pH which includes a 2 parts per million (ppm) high and 0.2 ppm low level concentration alarms, to its CCS in June 2001. The system also includes a 4 to 20 milliamp transmitter for supervisory control and data acquisition (SCADA) and a Honeywell dual pen recorder.

5. Permit provision number 12 requires LPVCWD to have personnel who are certified as water Treatment Facility operators in accordance with California Code of Regulations, Title 17.

   This is discussed below in Section II under Other Permit Provisions.

6. The permit requires LPVCWD to describe the operation of the air strippers.

   This is discussed below in Section II under the VOC Treatment Facility.

7. Permit provision number 21 requires LPVCWD to determine the hazards index for organic compounds in the treated water.

   This is discussed below in Section II under the Other Permit Provisions.

8. Permit provision number 23 requires LPVCWD to conduct weekly sampling of the source and treated water. Permit provision number 30 requires LPVCWD to conduct annual sampling at a special monitoring site.

   Source water quality weekly sampling results are discussed below in Section II under Source Water (Well No. 3).

   The treated water quality weekly sampling results are discussed in Section II under the appropriate treatment component: air stripping for VOCs; ISEP for Perchlorate; and Rayox for NDMA and 1,4-Dioxane.

   Annual sampling results at the special monitoring site are discussed below in Section II under Special Monitoring.

9. Permit provision number 25 requires LPVCWD to contact DHS within 24 hours and notify it in writing within seven (7) days of the use of LPVCWD Well No. 2.

   Between March 1, 2001 and February 28, 2002 LPVCWD Well No. 2 and No. 4 did not produce any water for drinking water supply.

10. Permit provision number 35 requires LPVCWD to report any operational problems and how they were resolved.

    Operational problems encountered in each portion of the Treatment Facility are discussed below in Section II.

SECTION II
TECHNICAL PERFORMANCE REPORT

The technical performance report summarizes the overall operational performance of the Treatment Facility and each of its component parts.

Source Water (Well No. 3)

Description of Operation

The source of supply between March 1, 2001 and February 28, 2002 was exclusively from LPVCWD Well No.3. The well typically operated fewer hours per day in the summer months than in the winter months because of power contract restrictions. Except for the pump failure described below, which was remedied in three days, no other problems occurred.

Quantity Treated

Groundwater production from LPVCWD Well No. 3 for March 1, 2001 through February 28, 2002 was 1,706 acre-feet. The production data for Well No. 3 is included in Table 1 and shown in Figure 1. The lowest monthly production was 84 acre-feet and occurred in March 2001 and the maximum monthly production was 197 acre-feet and occurred in August 2001.

Operational Problems

Permit provision number 35 requires LPVCWD to report any operational problems and how they were resolved.

On October 12, 2001, the motor on Well No. 3 failed and the Treatment Facility was shutdown for 3 days. The motor was repaired then re-installed on Well No. 3 on October 15, 2001. During this period of time LPVCWD obtained potable supply from San Gabriel Valley Water Company (SGVWC).

Raw Water Quality Results Summary

Raw water samples were collected from Well No. 3 at SP-1, shown on Plate 2, on a weekly basis from March 1, 2001 through February 28, 2002. VOCs, Perchlorate, NDMA, 1,4-Dioxane, and Nitrate were analyzed and results have been plotted. Figures 2 through 9 show water quality trends for weekly samples collected at SP-1 for Trichloroethylene (TCE), Perchlorothylene (PCE), Carbon Tetrachloride (CTC),

1,2-Dichloroethane (1,2-DCA), Perchlorate, 1,4-Dioxane, NDMA and Nitrate, respectively.

Figure 2 shows TCE concentrations in the raw water fluctuated between about 40 and 60 micrograms per liter (ug/L), above the Maximum Contaminant Level (MCL) of 5 ug/L, with no apparent trend. The TCE concentrations averaged about 50 ug/L with a high value of 72 ug/L and a low of 31 ug/L as shown on Table 2.

Figure 3 shows PCE concentrations in the raw water fluctuated between about 3 and 4.5 ug/L, below the MCL of 5 ug/L, with no apparent trend. The PCE concentrations averaged about 3.8 ug/L with a high value of 4.6 ug/L and a low of 2.5 ug/L as shown on Table 3.

Figure 4 shows CTC concentrations in the raw water fluctuated between about 2.5 and 3.5 ug/L, above the MCL of 0.5 ug/L, with no apparent trend. The CTC concentrations averaged about 3.0 ug/L with a high value of 4.4 ug/L and a low of 2.3 ug/L as shown on Table 4.

Figure 5 shows 1,2-DCA concentrations fluctuated between about 2.5 and 3.5 ug/L, above the MCL of 0.5 ug/L, with no apparent trend. The 1,2-DCA concentrations averaged about 3.2 ug/L with a high value of 4.6 ug/L and a low of 2.1 ug/L as shown on Table 5.

Figure 6 shows Perchlorate concentrations in the raw water fluctuated between about 60 and 70 ug/L, above the current Action Level (AL) of 4 ug/L. The Perchlorate concentrations averaged about 65 ug/L with a high value of 76 ug/L and a low of 57 ug/L as shown on Table 6.

Figure 7 shows 1,4-Dioxane concentrations in the raw water fluctuated between about 1.5 and 2.5 ug/L, below the AL of 3 ug/L. The 1,4-Dioxane concentrations averaged about 2.1 ug/L with a high value of 3.4 ug/L and a low of 1.4 ug/L as shown on Table 7.

Figure 8 shows NDMA concentrations fluctuated in the raw water between about 0.3 and 0.5 ug/L, above the current AL of 0.01 ug/L. The NDMA concentrations averaged about 0.4 ug/L with a high value of about 0.6 ug/L and a low of about 0.02 ug/L as shown on Table 8.

Figure 9 shows Nitrate concentrations in the raw water fluctuated between about 25 and 30 milligrams per liter (mg/L), well below the MCL of 45 mg/L, with no apparent trend. The Nitrate concentrations averaged about 26.5 mg/L with a high value of 28 mg/L and a low of 24 mg/L as shown on Table 9.

The raw water concentrations for Perchlorate, 1,4-Dioxane and NDMA, shown on Figures 6 through 8, have a slight downward sloping trend.

Evaluation of Seasonal Production and Water Quality Trends

An analysis of groundwater production, shown on Figure 1, and the raw water quality shown in Figures 2 through 9, does not indicate any obvious correlation between seasonal production and water quality.

Evaluation of Sensitivity of Previous Source Water Monitoring

The design of the Treatment Facility is based on the historic highest concentrations from the prior source monitoring. The historic high, as well as the minimum, average and maximum contaminant concentrations in raw water, for each contaminant is shown on Table 10. Between March 1, 2001 and February 28, 2002, the maximum concentrations detected in the raw water for all the contaminants are below the historic high, except for 1,4-Dioxane, which is equal to the historic high. Therefore, the Treatment Facility was designed properly based on the historic highest concentrations and all the contaminants are expected to be treated to below the detection limit.

VOC Treatment Facility

Summary of Design Parameters

Groundwater is extracted at LPVCWD Well No.3 and pumped to the top of each air stripping tower and flows over the packing material. The VOCs are transferred from the water to air flowing in a countercurrent direction. The VOCs in the air are removed by an activated carbon vessel and the clean air is released to the atmosphere. Air Stripper No.1 has an off-gas control unit with 7,000 pounds of granular activated carbon (GAC). Air Stripper No. 2 has an off-gas control unit containing 20,400 pounds of GAC. The treated groundwater flows by gravity into a 15,000 gallon wet well. Both air stripping towers were designed to reduce the VOCs in the raw water to below MCLs.

Air stripping tower No. 1 was designed for a maximum flowrate of 1,000 gpm and tower No. 2 for a maximum flow rate of 1,500 gpm. The minimum volumetric air to water ratio for air stripping tower No. 1 is 30 to 1 and 60 to 1 for air stripping tower No. 2. Between March 1, 2001 and February 28, 2002:

- The monthly flow rate for air stripping tower No. 1 averaged 800 gpm with a maximum of 800 gpm and 1,400 gpm for air stripping tower No. 2 with a maximum of 1,400 gpm

- Air stripping tower No. 1 monthly air to water ratio averaged 56.25 to 1 with a minimum of 56.25 to 1 and 64.29 to 1 for air stripping tower No. 2 with a minimum of 64.29 to 1 as shown Table 1.

The design flow rate and the minimum air to water ratio for both air stripping towers was met during March 1, 2001 through February 28, 2002.

Operational Modifications

There were no changes made to the operation of the air strippers besides routine maintenance.

Summary of Treated Water Quality Results

Treated Water samples were collected on a weekly basis at SP-6, shown on Plate 2, from March 1, 2001 through February 28, 2002. TCE, PCE, CTC and 1,2-DCA were analyzed and results are plotted in Figures 2 through 5, respectively.

Figures 2 through 5 show treated water concentrations of TCE, PCE, CTC and 1,2-DCA are always non-detect.

Evaluation of Sensitivity of Monitoring Program

The Treatment Facility was designed to treat contaminants at their historic highest concentrations to non-detectable levels. As shown on Table 10, from March 1, 2001 to February 28, 2002, TCE, PCE, CTC and 1,2-DCA were never detected above the historic highest concentrations. In addition, TCE, PCE, CTC and 1,2-DCA have never been detected in the treated water. Therefore, weekly monitoring appears to be an adequate frequency for the detection of raw and treated water concentrations for TCE, PCE, CTC and 1,2-DCA, and a reduction to monthly monitoring for raw water is appropriate.

VOC Removal Efficiency

When using the detection limit of 0.5 ug/L to calculate the monthly average contaminant removal efficiency, on all the sampling results that are non-detect, the average TCE, PCE, CTC and 1,2 DCA removal efficiency for air stripping tower No.1 and No. 2 was about 99, 87, 83 and 83 percent, respectively, as shown on Tables 2 through 5. When using zero the removal efficiency for air stripping tower No.1 and No. 2 is 100 percent.

Perchlorate Treatment Facility (ISEP)

Summarize Design Parameters

The ISEP continuous ion exchange module consists of 30 resin-filled vessels (ion exchange columns) arranged in a carousel on a rotating frame, brine and rinse water systems, and a process control system. The ISEP module is designed to treat Perchlorate at a concentration up to 200 ug/l.

Operational Modifications

There were no changes made to the operation of the ISEP module besides routine maintenance.

Summary of Treated Water Quality Results

The Treated Water samples were collected on a weekly basis for Perchlorate at SP-6, as shown on Plate 2, from March 1, 2001 through February 28, 2002 and were analyzed. Perchlorate was detected in the treated water between 4 and 5 ug/L on seven occasions between March 1, 2001 through January 17, 2002, as shown on Figure 6. However, the AL for Perchlorate was 18 ug/L up until January 18, 2002. Since the AL was lowered on January 18, 2002 to 4 ug/L, the treated water Perchlorate concentration has never exceed the AL of 4 ug/L, as shown on Figure 6.

Evaluate Sensitivity of Monitoring Program

The Treatment Facility was designed to treat contaminants at their historic highest concentrations to non-detectable levels. As shown on Table 10, from March 1, 2001 to February 28, 2002, Perchlorate was never detected above the historic high concentration. In addition the Perchlorate concentration in raw water was consistent and stable through the year. Therefore, weekly monitoring appears to be adequate for detection and removal of Perchlorate.

Operational Problems

- An encoder pulley froze on June 28 and 29, 2001 due to corrosion and required freeing. This left the Treatment Facility inoperable for 35 hours. During that time LPVCWD obtained potable water from SGVWC.

- A Culligan water softener regeneration valve failed on August 30, 2001 and caused the Treatment Facility to be out of service for 156 hours. The Treatment Facility returned to service on September 6, 2001. During that period of time LPVCWD obtained potable water from SGVWC. LPVCWD checks the valve occasionally to ensure such a failure would be minimized in the future.

- Excessive scaling on main ports No.'s 25, 26 and 27 of the ISEP modules and brine line piping caused extensive blockage and required replacement of each of the three ports and 40 feet of piping on the brine line. The scaling problem was identified on June 29, 2001 and corrected on July 1, 2001 and required the Treatment Facility to be shutdown for 37 hours. During that period of time LPVCWD obtained potable water from SGVWC. LPVCWD subsequently installed an acid injection system, which uses sulfuric acid 31 percent solution, consisting of a Pulsatron 11 gallon per

minute (gpm) pump, and piping was installed in late September, 2001 on the ISEP brine discharge line to reduce the pH of the water and minimize potential future scaling problems.

- The scaling also led to failure of one of the waste brine pumps on September 19, 2001. The waste brine pump was removed and replaced, and required that the Treatment Facility be shutdown for 12 hours. During that period of time LPVCWD obtained potable water from Main Street Reservoir.

- During September 19 and 20, 2001, the Treatment Facility was shutdown due to a waste brine-line blockage. NSF approved sulfuric acid was used to unplug the waste discharge line, which does not provide any water for drinking purposes.

NDMA; 1,4-Dioxane Treatment Facility (Rayox)

Summary of Design Parameters

The Rayox modules consist of two towers in series and a process control system. Each tower contains 12 ultraviolet (UV) lamps. Each lamp is contained in a quartz sleeve which is kept clean by an automated sleeve cleaner. Destruction of 1,4-dioxane requires the addition of hydrogen peroxide, which forms hydroxyl radicals in water. Under the influence of UV light, the hydroxyl radicals oxidize 1,4-dioxane. NDMA is destroyed by direct photolysis when exposed to UV light. The Rayox module is designed to treat NDMA up to 900 ug/l.

Operational Modifications

There were no changes made to the operation of the Rayox modules besides routine maintenance.

Number of Lamps Used

Between March 1, 2001 and February 28, 2002 16 lamps were illuminated at all times while the Treatment Facility was in operation, as shown on Table 1.

Summary of Treated Water Quality Results

NDMA was detected in the treated water on three occasions between March 1, 2001 and February 28, 2002. On March 12, 2001 the NDMA concentration was 0.015 ug/L in the treated water and on March 19, 2001 and April 14, 2001 when concentrations were reported as 0.002 ug/L (see Table 8). However, the AL at the time

was 0.020 ug/L indicating the treated water met DHS water quality standards. NDMA results consistently been below the detection level of 0.002 ug/L since April 2001.

In addition, 1,4-Dioxane was detected in the treated water on four occasions during March 1, 2001 through February 28, 2002 at concentrations below 1.5 ug/L, which is below the AL of 3 ug/L (See Table 7).

Evaluate Sensitivity of Monitoring Program

The Treatment Facility was designed to treat contaminants at their historic highest concentrations to non-detectable levels. As shown on Table 10, from March 1, 2001 to February 28, 2002, NDMA and 1,4-Dioxane were never detected above the historic highest concentrations. In addition NDMA and 1,4-Dioxane levels in raw water are consistent and stable through the year. Therefore weekly monitoring appears to be adequate for detection and removal of NDMA AND 1,4-Dioxane.

Operational Problems

During treatment facility startup on November 19, 2001 a treated water "valve open" failure occurred. The problem was a loose wire, and was repaired. Treatment Facility startup resumed on November 20, 2001. The Treatment Facility was out of service for 12 hours. During that time LPVCWD obtained water from Main Street Reservoir.

During startup on December 28, 2001 a treated water "valve open" failure occurred. The problem was a damaged electrical relay, which was replaced. Treatment facility startup resumed on December 28, 2001. The Treatment Facility was out of service for 12 hours. During that time LPVCWD obtained water from Main Street Reservoir.

On both December 30, 2001 and January 16, 2002, the Treatment Facility was shutdown due to a waste brine-line blockage. A sulfuric acid solution was used to unplug the line. On those two days, LPVWD obtained water from Main Street Reservoir.

Special Monitoring

Identify Monitoring Wells and Operational Status

Both raw and treated water samples were collected at LPVCWD Treatment Facility on October 24, 2001 for the annual special monitoring requirements (See Appendix E).

The SGVWC Well B6C is part of the LPVCWD special monitoring requirement but it was not sampled because the SGVWC B6 Treatment Facility is not

yet operational. The SGVWC B6 Treatment Facility is expected to be operational around the end of calendar year 2002 at which time sampling will be performed. The well is currently inactive.

Valley County Water District (VCWD) Big Dalton well is also part of the LPVCWD special monitoring requirement but it was not sampled because of the inability to discharge contaminated water. VCWD Big Dalton well is also inactive.

Although not identified in permit provision 23, Environmental Protection Agency (EPA) multi-port monitoring wells MW 5-05 and MW 5-15 are upgradient of the Treatment Facility, as shown on Plate 1. Raw water samples were collected by EPA at MW 5-05 and MW 5-15 on May 29, 2001 and May 30, 2001, respectively. The results of the testing are shown in Appendix F. The samples were collected from monitoring ports which are screened over ten foot intervals. The water quality results indicate that no new compound, in addition to those compounds addressed in the DHS Policy Memo 97-005 report, were detected. Although PCE and TCE concentrations were detected in excess of design concentrations in some of the ports, water quality data was collected from a very specific depth and is not indicative of concentrations that will occur from extraction well that is perforated over several hundred feet. LPVCWD will continue to evaluate EPA monitoring well data in addition to water quality from SGVWC B6C Well and VCWD Big Dalton Well.

Summary of Water Quality Results

Both raw and treated water samples were collected at LPVCWD Treatment Facility on October 24, 2001 for the annual special monitoring requirements. The samples were analyzed for Perchlorate, NDMA, 1,4-Dioxane, VOCs, Nitrate, general physical, general mineral, full metals scan, Chromium VI, Nitroaromatics and nitroamines, gross alpha/beta and Synthetic Organic Compounds (SOCs). EPA method 8260B and 8270C for VOC and SOC analysis, respectively, were also used to analyze for Tentatively Identified Compounds (TIC). The test results are discussed below.

All the constituents in the treated water met all Federal and State Drinking Water Standards. No new compounds were detected in the raw or treated water except for Copper, Lead, Tin and Thallium, which are discussed below.

The raw water concentration for Copper was 3.6 ug/L and the treated water concentration was 180 ug/L. Both the raw and treated water Copper concentrations are below the AL of 1,300 ug/L. The raw water concentration for Lead was non-detect and the treated water concentration was 31 ug/L. The AL for Lead is 15 ug/L, however, the compliance is based on the ninetieth percentile for samples collected on September 21, 2001 in the distribution system measurements and LPVCWD was in compliance. LPVCWD will continue to sample for lead in the distribution system in accordance with the Federal and State Lead and Copper Rule.

Thallium was not detected in the raw water but was detected in treated water at 1.8 ug/L, which is below the MCL of 2 ug/L. In addition, Tin was not detected in

the raw water but was detected at 4.6 ug/L in the treated water. There is no drinking water standard for Tin.

Copper, Lead, Thallium and Tin were detected at higher concentrations in treated water than in raw water. A decrease in pH caused by the ISEP treatment process may have caused the water to be more corrosive. Although none of these metals exceeded the drinking water standards, it is suggested that Copper, Lead, Thallium and Tin be monitored at SP-4 (after the ISEP, but prior to the Rayox) and at SP-6 to isolate the potential source of the problem. Following review the new data, appropriate follow-up monitoring will be suggested to DHS.

Raw water samples were collected at EPA MW5-05 and MW5-15 on May 29, 2001 and May 30, 2001, respectively. The samples were analyzed for Perchlorate, NDMA, 1,4-Dioxane, VOCs, Nitrate, general physical, general mineral, full metals scan, Chromium VI, Nitroaromatics and nitroamines, gross alpha/beta and Synthetic Organic Compounds (SOCs). The test results indicate no new compounds were detected in wells MW5-05 and MW5-15.

Other Permit Provisions

- NSF Approved Materials

Documents verifying certification of all materials used at the Treatment Facility are located in Appendices A through D.

- Flow Sensors

The flow sensor installed on the Hydrogen Peroxide metering pump was discussed in Section I under Permit Provisions.

The flow sensor installed on the Chlorine metering pump was discussed in Section I under Permit Provisions.

- Personnel Certifications

The following is a list of operators who are responsible for the operation of the Treatment Facility. The operators may be reached at the Treatment Facility at (626) 480-8466.

Operator	Grade	Certification Number
Michael Berlien	3	18601
Erik Moss	1	17457

- Hazard Index

The hazard index for the Treatment Facility treated water is calculated using the following formula:

Hazard Index = Sum [Contaminant Concentration/(MCL or AL)] < or = 1

Using the water quality results from the October 24, 2001 TIC analysis, which is most inclusive of organic compounds, the hazard index is calculated as follows using detected concentrations in raw water.

$$\frac{\text{TCE}}{5} + \frac{\text{PCE}}{5} + \frac{\text{Dichlorodiflouromethane}}{1{,}000} + \frac{\text{1,1-DCE}}{6} + \frac{\text{cis-1,2-DCE}}{6} + \frac{\text{chloroform}}{80} + \frac{\text{CTC}}{0.5} + \frac{\text{1,2-DCA}}{0.5} < 1$$

The water quality of each of these compounds in the treated water is non-detect. Therefore, the Hazard Index is less than one, as required and meets permit provision 21.

- Identify Chlorine Residual

The Chlorine Residual of the Treatment Facility effluent at SP-6 (see Plate 2) had a monthly average of about 1.9 ppm with a minimum of 1.5 ppm and a maximum of 2.5 ppm between March 1, 2001 and February 28, 2002. At the Main St. Reservoir the monthly Chlorine Residual averaged about 0.9 ppm with a minimum of 0.5 ppm and a maximum of 1.5 ppm between March 1, 2001 and February 28, 2002 (See Table 1).

- Operational Problems

A seventy-two hour shutdown was caused by a thrust bearing failure on the wet well No. 1 booster pump No.1 on February 4, 2002. The booster pump motor was rebuilt and the Treatment Facility resumed operation on February 7, 2002. During this period of time LPVCWD obtained potable supply from SGVWC.

On a few occasions an unexpected phenomenon occurred causing <u>all</u> alarms to be triggered. Each time the operator was notified by the CCS, all programmable logic controllers (PLCs) where rebooted by the operator, and the Treatment Facility was returned to service. Although the cause has not yet been determined at this time, it continues to be investigated and LPVCWD will follow up with DHS. In no event was untreated water provided to customers.

- Examine Overall Performance of the Process Train and Assess its Operational Reliability

The Treatment Facility is effectively removing all VOCs, in particular TCE, PCE, CTC and 1,2-DCA, as shown on see Tables 2 through 4, from the source water. Removal rates for Perchlorate, 1,4-Dioxane, NDMA and Nitrate range from 97.3 percent to 99.9 percent, as shown on Tables 6 through 9. The Treatment facility is producing water that meets or exceeds all federal and state drinking water standards.

The electrical service contract required the Treatment Facility to be shut down on a daily basis to satisfy the power contract. However, with the exception of these shut downs, the Treatment Facility operated to meet LPVCWD system demand.

- Alarm Settings

There were no adjustments made to the original alarm settings.

- Emergency Response Tree

The Emergency Response Tree for the Treatment Facility is shown below. Individuals for LPVCWD and DHS are listed in the order that they should be contacted.

LA PUENTE VALLEY COUNTY WATER DISTRICT PERSONNEL

NAME	TITLE	TELEPHONE DAY	TELEPHONE NIGHT (Pager Numbers)
Michael J. Berlien	General Manager	(626) 330-2126	(626) 473-7372
Erik S. Moss	Crew Leader	(626) 330-2126	(626) 473-2831
Michael C. Cuskey	Utility Worker	(626) 330-2126	(626) 473-1513
Keith R. Bowman	Utility Worker	(626) 330-2126	(626) 473-7038

DEPARTMENT OF HEALTH SERVICES

NAME	TITLE	TELEPHONE DAY	TELEPHONE NIGHT
Heather Collins	District Engineer	(213) 580-3185	(909) 597-2547
Sutida Bergquist	Sanitary Engineer	(213) 580-5726	(562) 493-2175
Cliff Cheng	Sanitary Engineer	(213) 580-5736	(818) 500-8568
Grazyna Newton	Sanitary Engineer Associate	(213) 580-5734	(818) 349-7960
Chi Diep	Sanitary Engineer	(213) 580-5727	(626) 572-3996

- Verify the Frequency of Process Monitoring Is Tied to Seasonal Cyclic Events and Pumping Activities so the Design and Operational Constraints are Not Exceeded

There does not appear to be any correlation between seasonal events, source or treated water quality and the groundwater pumping rate. The maximum flow through the Treatment Facility was 2,200 gpm and the operational flowrate constraint of 2,500 gpm was not exceeded.

- Develop Site Specific Loading Factors, e.g. Flow per Lamp or Flow per Cubic Foot of Resin That Can be Used as Rough Indicators of "Safe" Operational Parameters.

The following are site specific loading factors that may be used to gage the safe operation of the Treatment Facility.

The flow rate for air stripping tower No. 1 averaged 800 gpm and that for air stripping tower No. 2 averaged 1,400 gpm during March 1, 2001 to February 28, 2002. Air stripping tower No. 1 air to water ratio averaged 56.25 to 1 and for air stripping tower No. 2 it averaged 64.29 to 1 during March 1, 2001 to February 28, 2002. The raw water monthly average TCE, PCE, CTC and 1,2-DCA concentrations were 50 ug/L, 3.8 ug/L, 3.0 ug/L and 3.2 ug/L, respectively.

The average flow per cubic foot of resin used in the ISEP unit amounts to about 0.05 gpm/cubic foot of resin at a raw water monthly average Perchlorate concentration of about 65 ug/L.

These values can be relied upon as generally acceptable levels of operation and will produce treated water that meets all the drinking water standards.

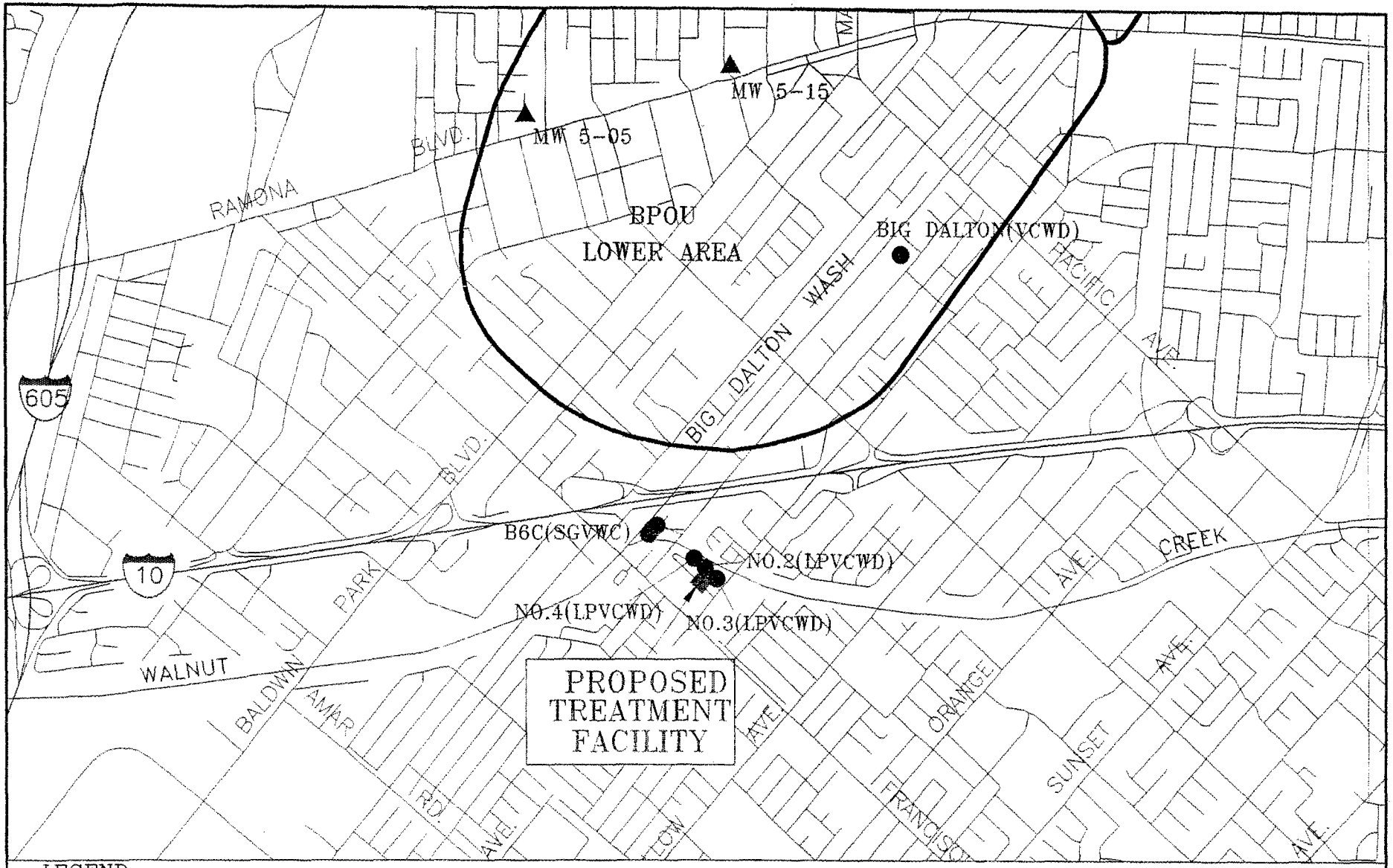
Proposed Modifications to Monitoring Frequency

There were no significant fluctuations in the raw water quality between March 1, 2001 and February 28, 2002. The data suggests the weekly monitoring frequency for raw water for all compounds can be reduced to a monthly basis.

Conclusions and Recommendations

The LPVCWD Treatment Facility has been successful in removing 100 percent of the VOCs (TCE, PCE, CTC, 1,2-DCA) at all times between March 1, 2001 and February 28, 2002 and over 97 percent of Perchlorate, 1,4-Dioxane, and NDMA and Nitrate in the raw water. Although occasionally detected, the treated water concentrations for all of these constituents never exceeded the MCLs or ALs. It shows that the Treatment Facility is effective in removing all the contaminants in the raw water to meet all the drinking water standards. The weekly raw water sampling results indicate the concentration of the contaminants did not appear to fluctuate. Based on the annual sampling results, no new compound was discovered in the raw water at LPVCWD Well No. 3 or in upgradient EPA monitoring wells. Although currently not exceeding any drinking water standards, the concentrations of Copper, Lead, Thallium and Tin should be monitored to identify the cause of increased concentrations in the treated water.

The Treatment Facility has experienced mechanical failure of the Well No. 3 motor, booster pump motor, a waste brine pump and an encoder pulley. The failure of several valves, scaling of some components and waste brine-line blockage have also caused the Treatment Facility to shut down.



LEGEND

- B6B(SGVWC) — WELL NAME (OWNER)
- MW 5-05 — MONITORING WELL
- PROPOSED TREATMENT FACILITY
- BPOU BOUNDARY
- LPVCWD — LA PUENTE VALLEY COUNTY WATER DISTRICT
- SGVWC — SAN GABRIEL VALLEY WATER COMPANY

STETSON ENGINEERS INC.
3104 EAST GARVEY AVENUE
WEST COVINA, CALIFORNIA 91791
TEL: (626) 967-6202
FAX: (626) 331-7065

2171 E Francisco Blvd., Suite K
San Rafael California 94901

2651 W Guadalupe Rd., Suite A209
Mesa Arizona 85202

N

APPROXIMATE SCALE
0 1000' 2000'

MAIN SAN GABRIEL BASIN WATERMASTER

LOCATION MAP
LA PUENTE VALLEY COUNTY WATER DISTRICT
WELL NO. 3 TREATMENT FACILITY

PLATE 1

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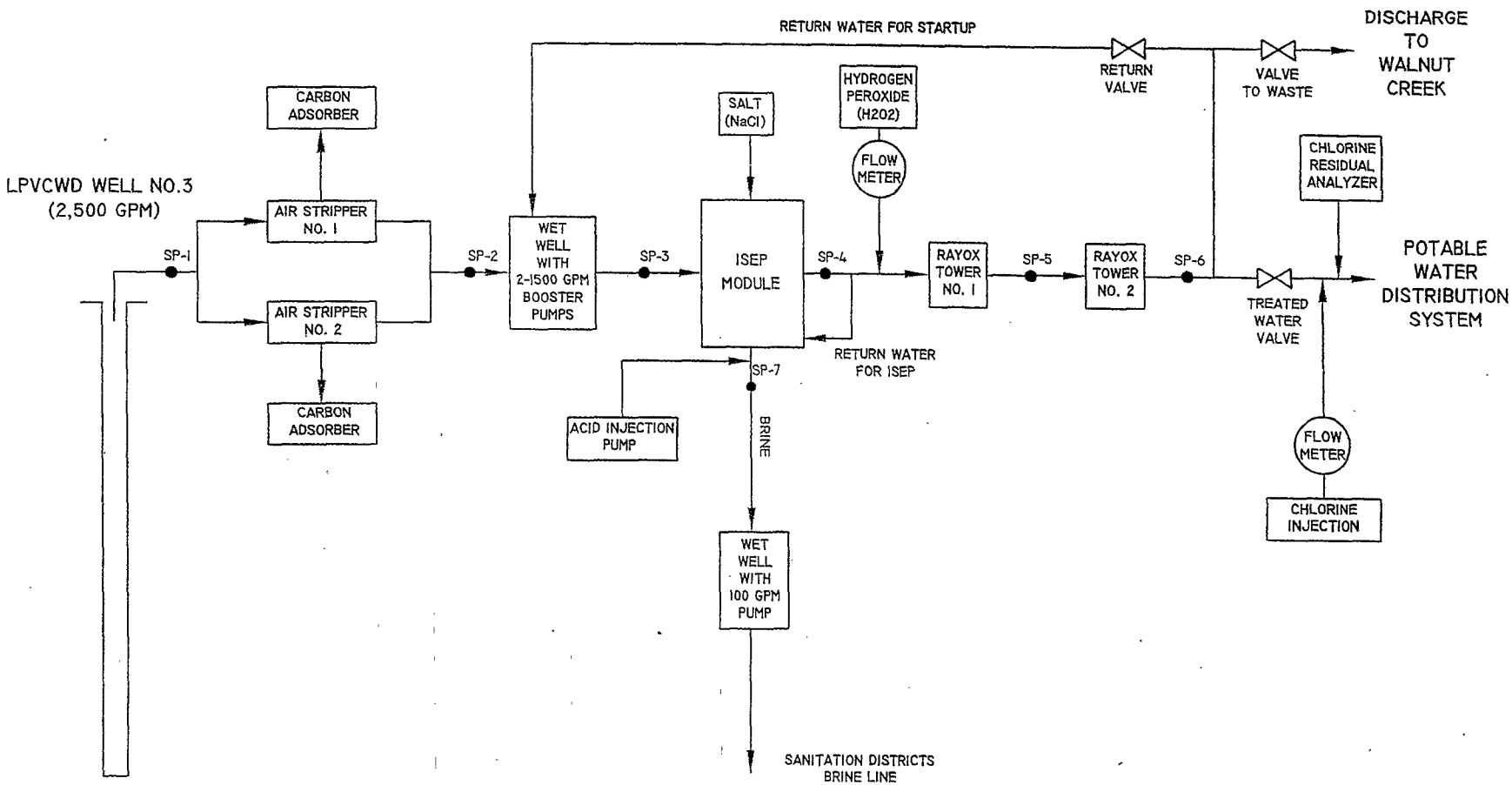
F:\Jobs\1789\1789-22\Progress Reports\PLATE_1.PCZ



SP : SAMPLING POINT

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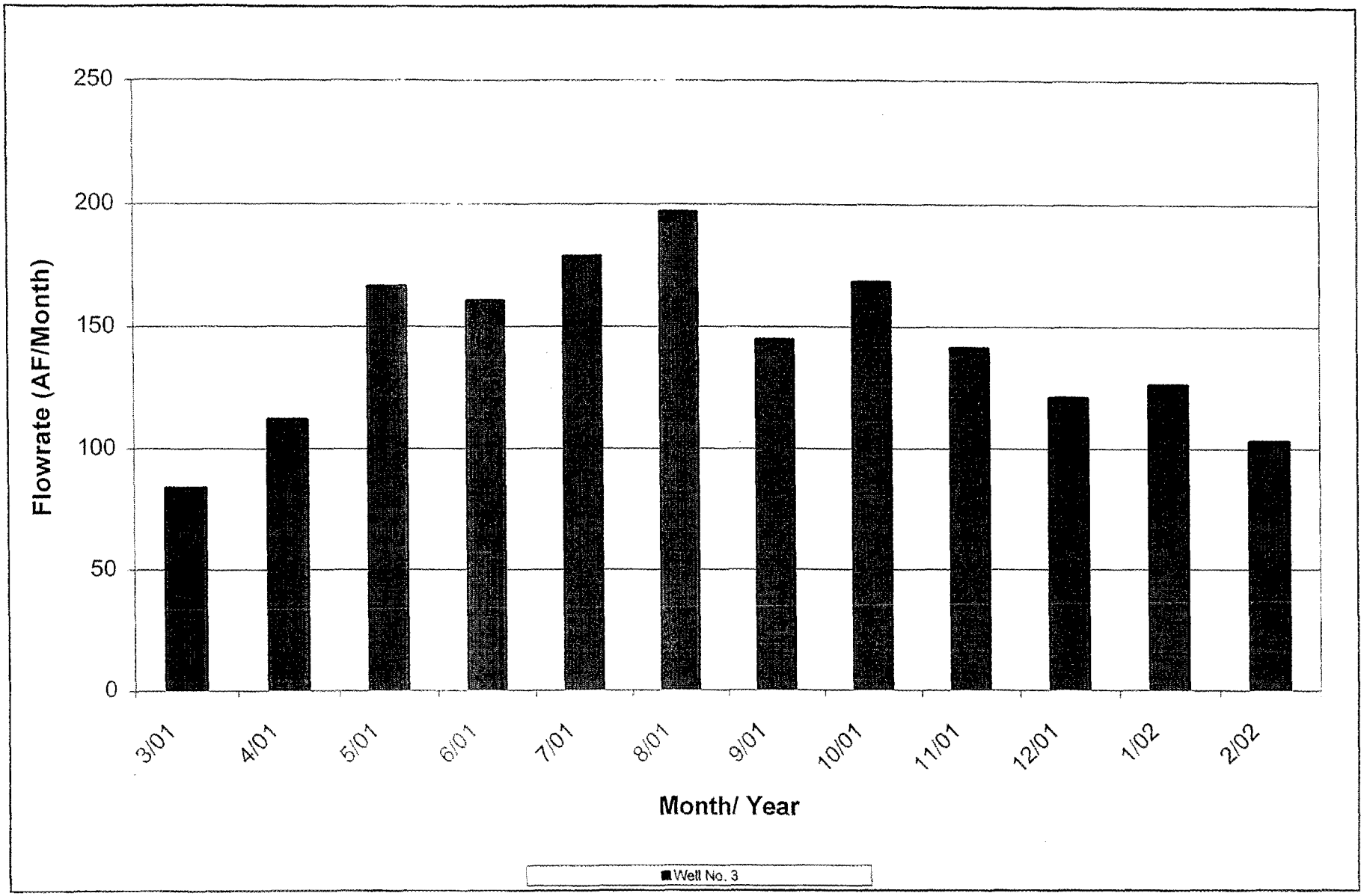
2171 E Francisco Blvd., Suite K
San Rafael California 94901

2651 W Guadalupe Rd., Suite A209
Mesa Arizona 85202

LA PUENTE VALLEY COUNTY WATER DISTRICT

TREATMENT FACILITY
PROCESS DIAGRAM

PLATE 2



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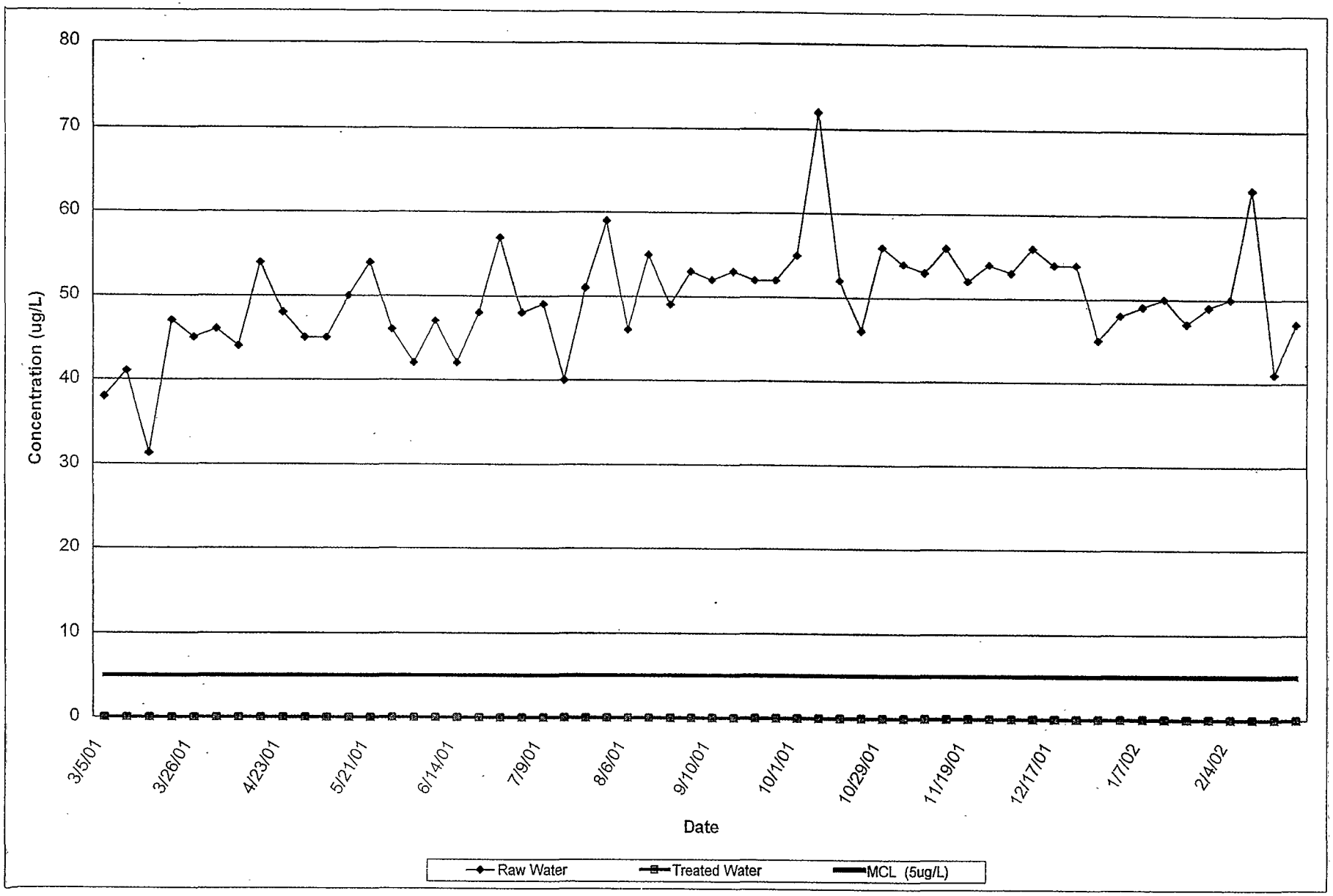
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

MONTHLY AVERAGE PRODUCTION FOR WELL NO. 3
AT LPVCWD TREATMENT FACILITY

FIGURE 1



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WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
TCE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 2

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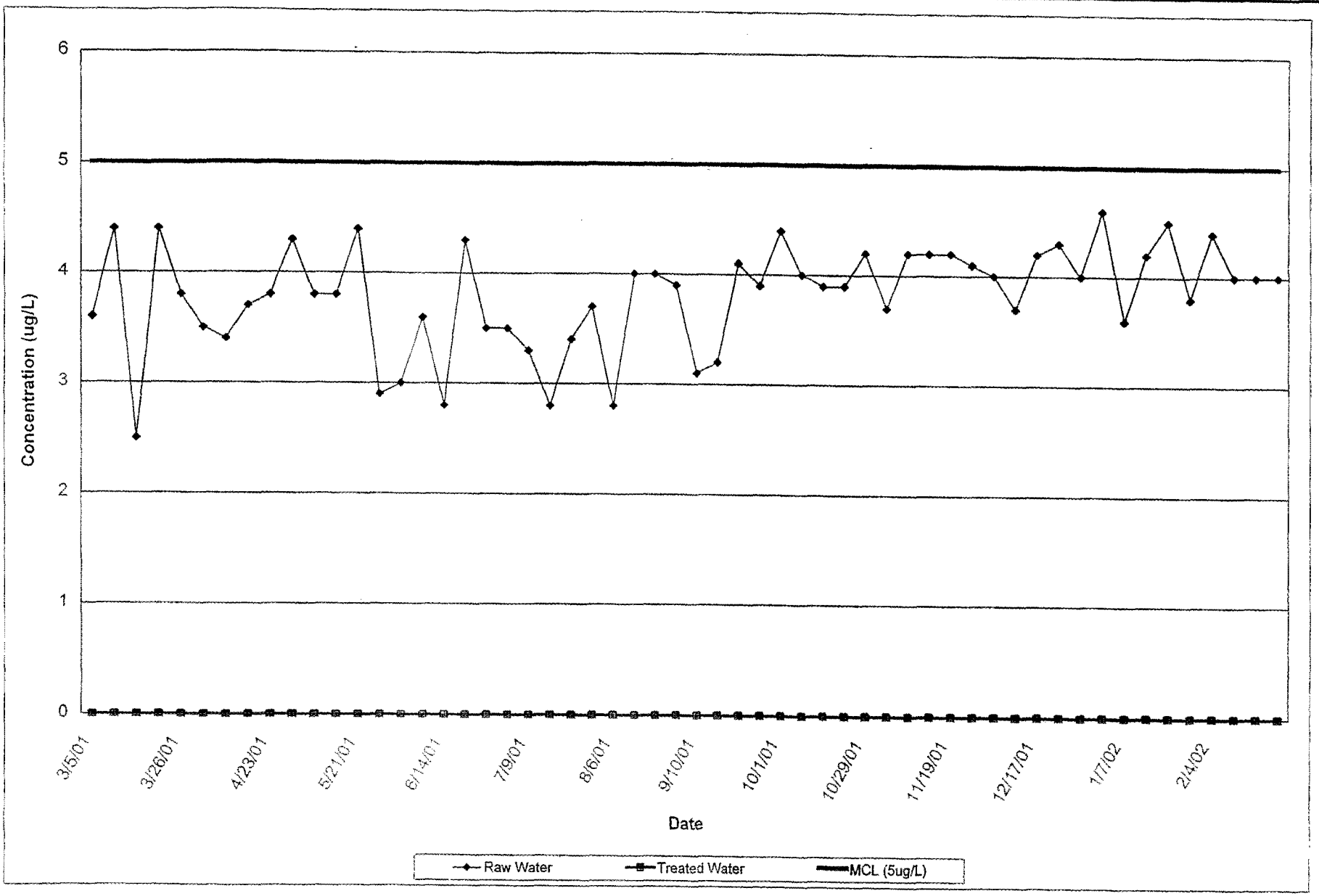

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LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
PCE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 3

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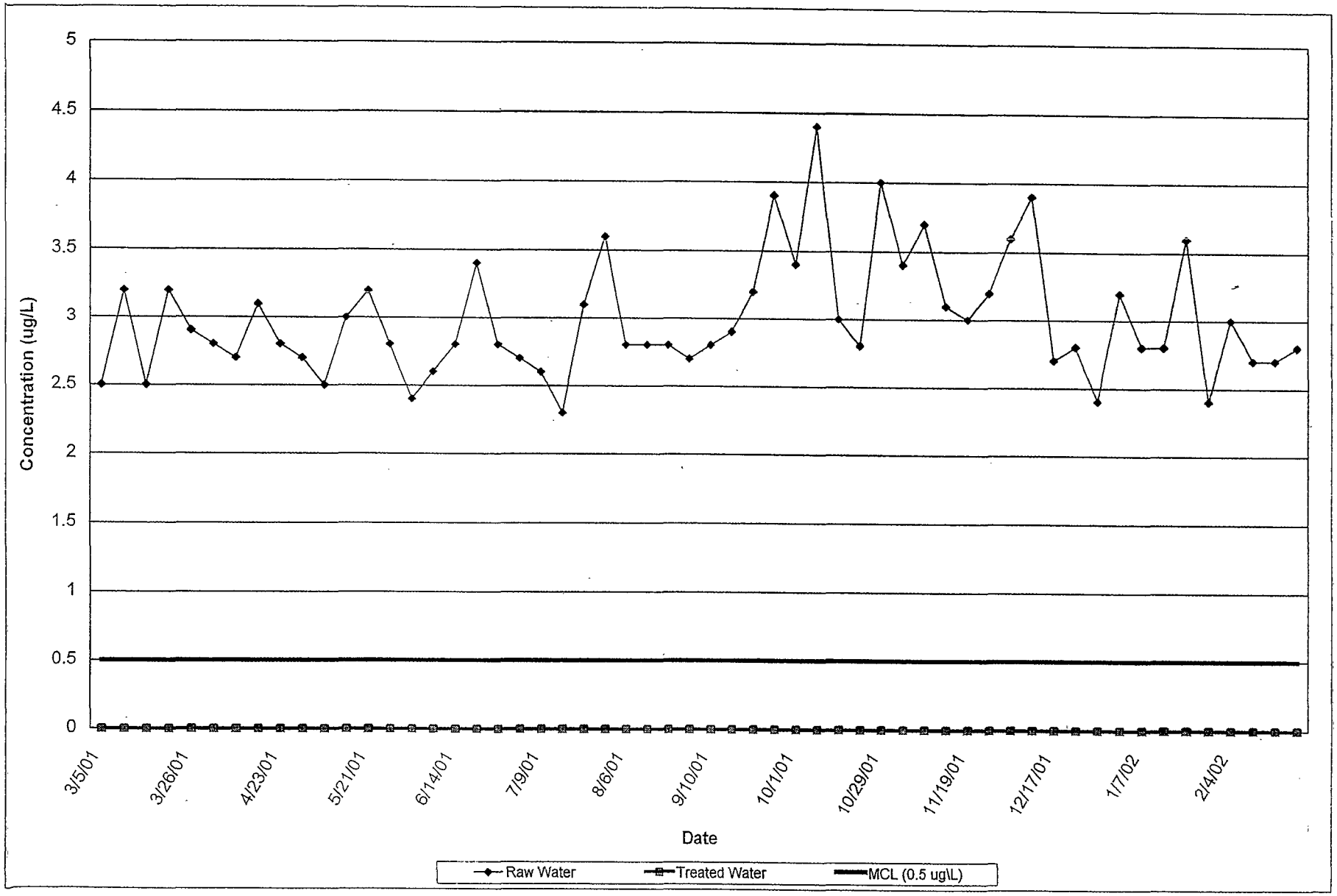

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WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
CTC CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 4

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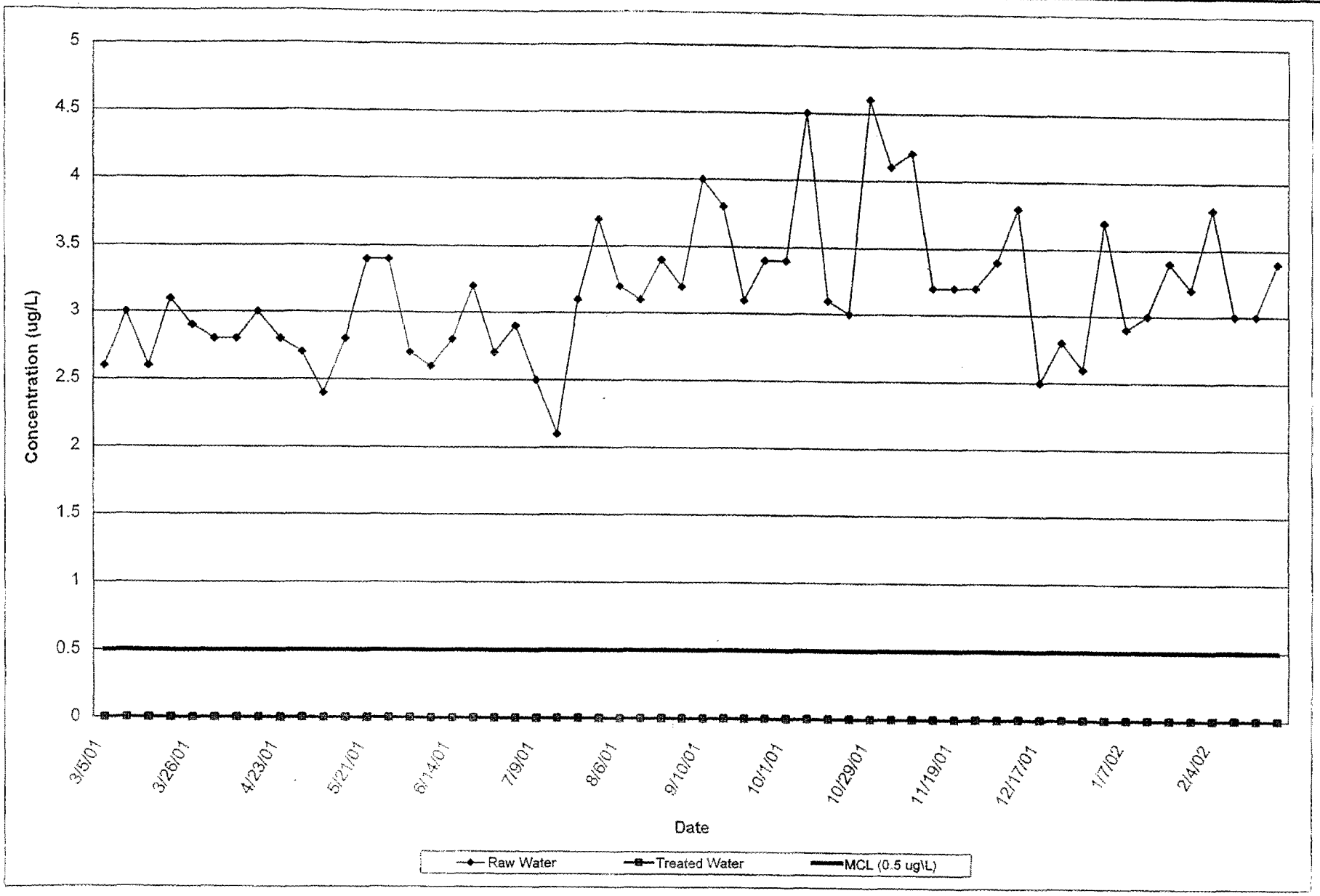
4/18/02



STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
1,2-DCA CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 5

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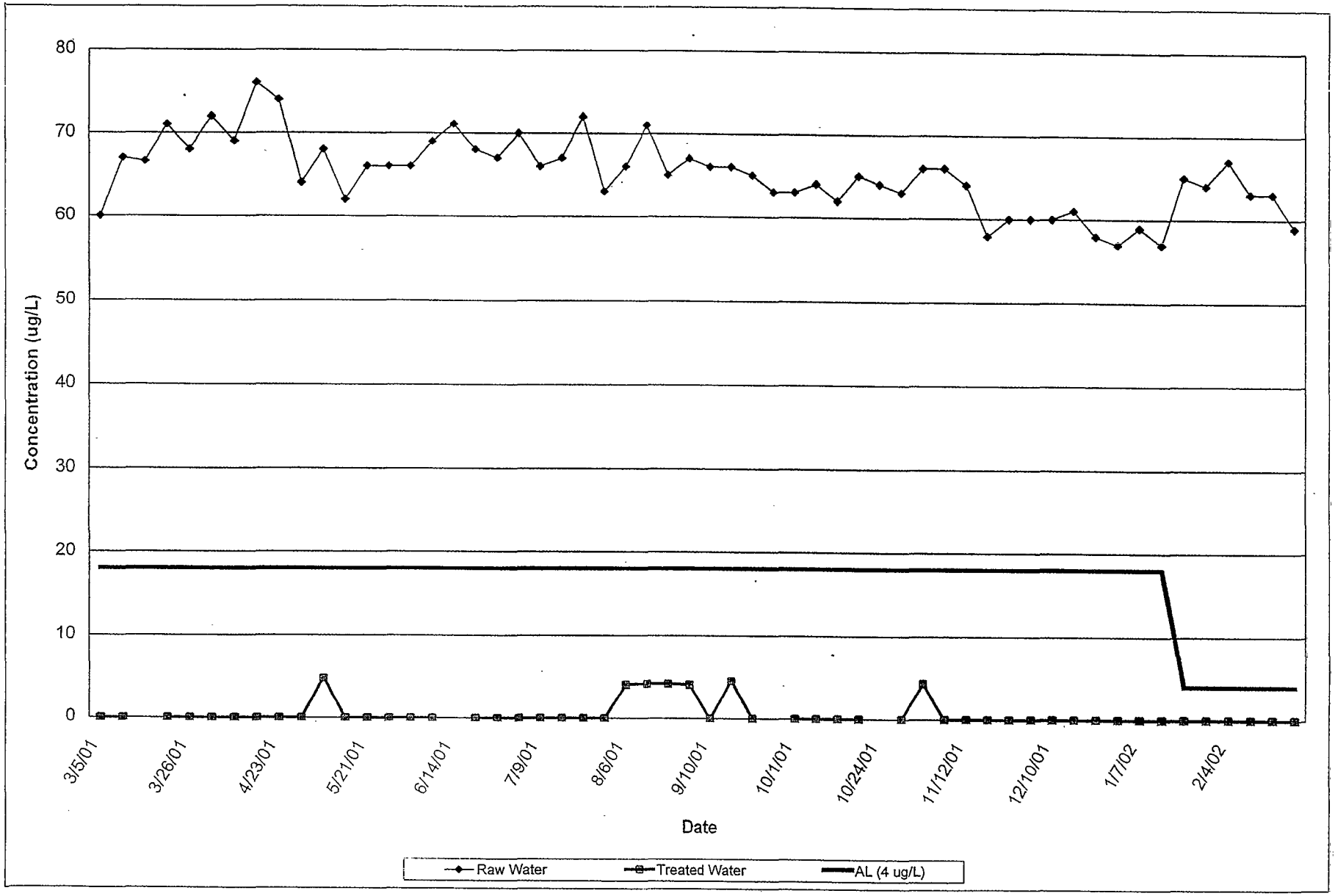
4/18/02



STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

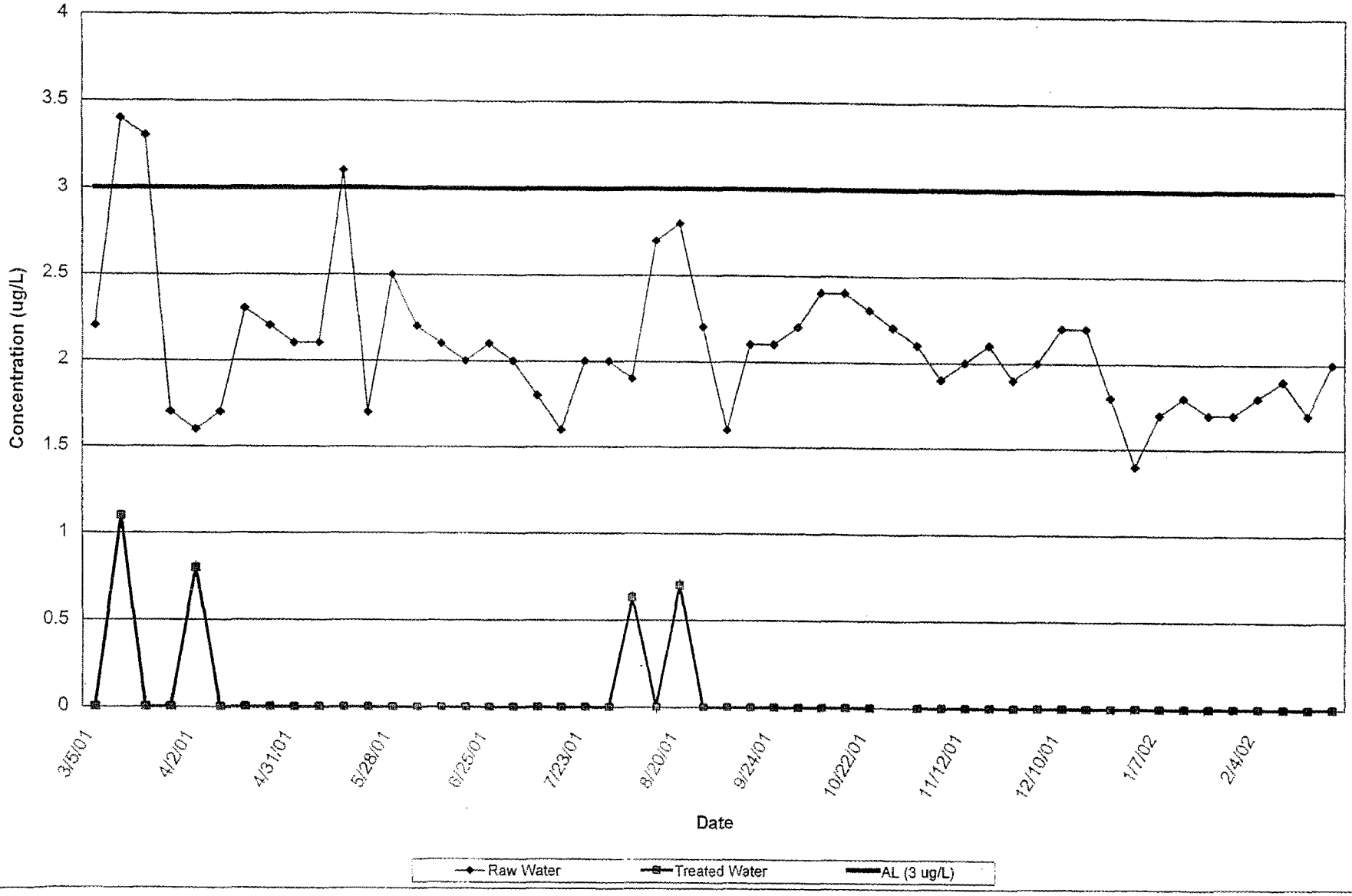
LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
PERCHLORATE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 6

F:\Jobs\1789\1789-22\Progress Reports\Data\Concentration Charts.xls\Figures\pp 5

4/18/02



STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
1,4-DIOXANE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 7

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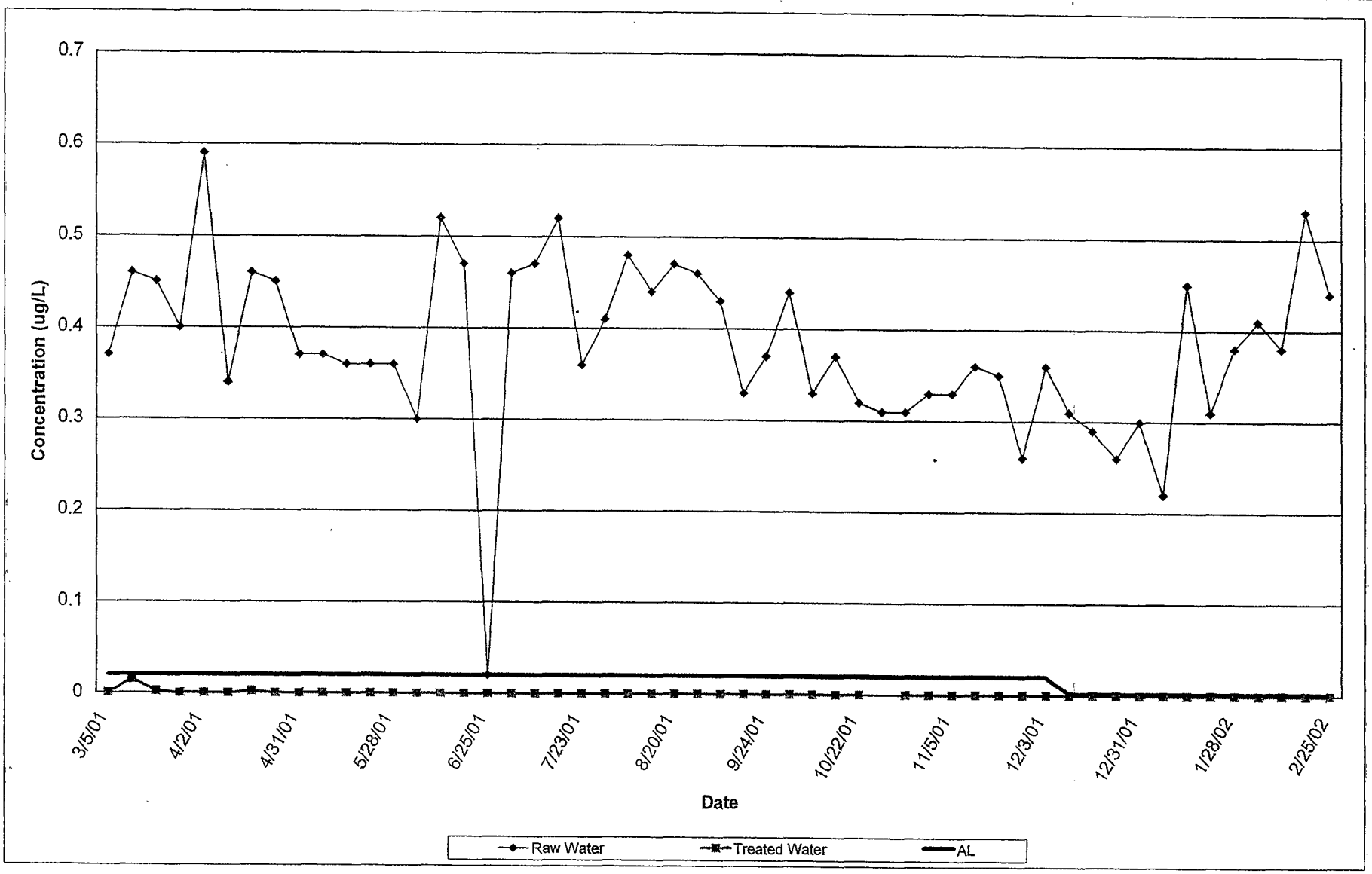
4/18/02



STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
NDMA CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 8

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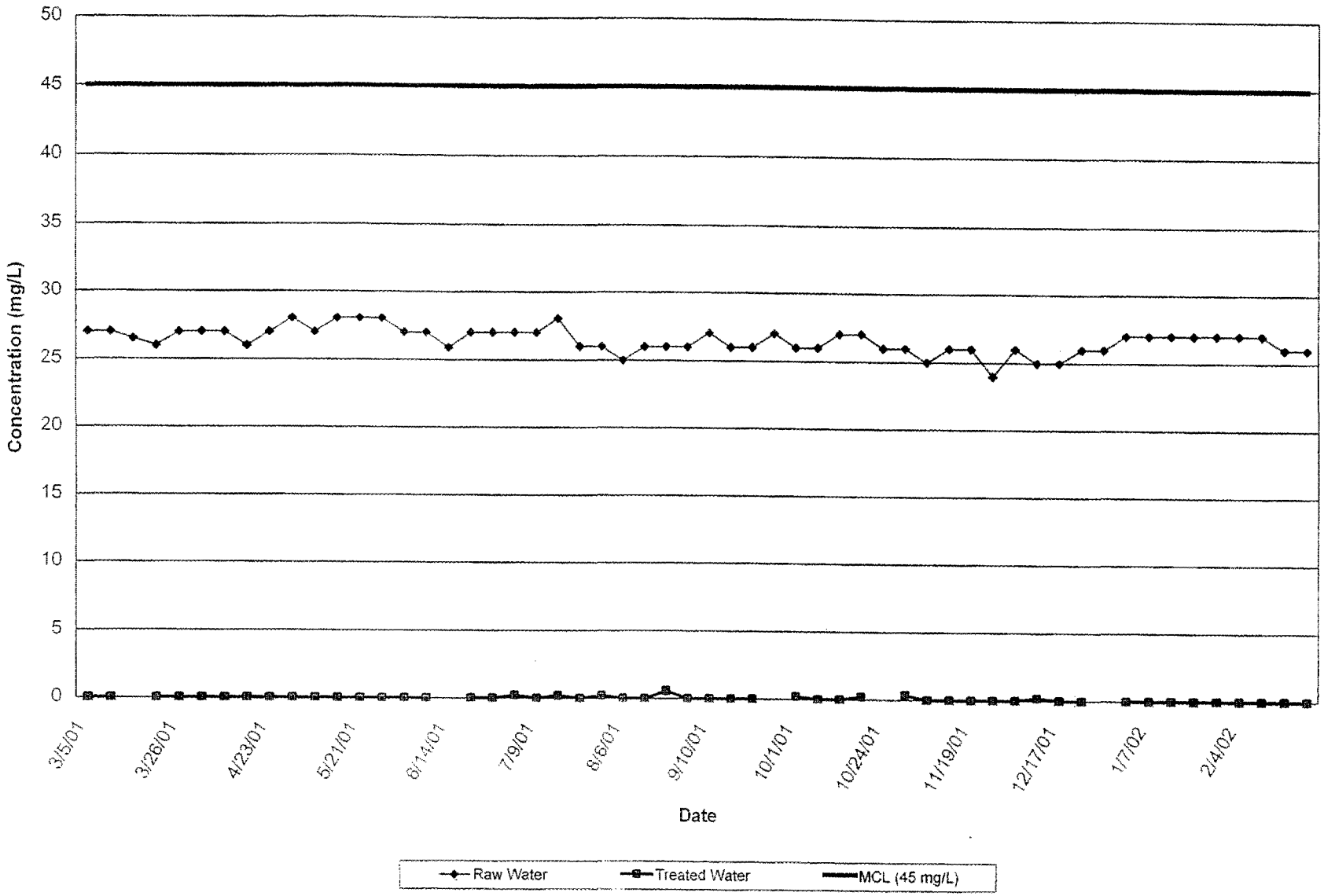
4/22/02



STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
NITRATE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 9

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4/18/02

TABLE 1
Monthly Average Production for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

onth	Well Production, (AF/mo.)		Total Amount of Water Processed, (AF/mo.)	Plant Peak Flow, (AF/mo.)	Hours of Opperation, (hrs./mo.)	Air Stripper 1		Air Stripper 2		RayOx	Hours of Operations, (hrs./day)				Hydrogen Peroxide Residuals, (ppm)	Chlorine Residuals, (ppm)	
	Well No. 2	Well No. 3				Air:Water Ratio (min.)	Peak Flow, (gpm)	Air:Water Ratio (min.)	Peak Flow, (gpm)	Number of Lamps in Operations	Air Stripper #1	Air Stripper #2	ISEP	RayOx		Plant Discharge	Hudson Reservoir
'01	0.0	84.3	84.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
'01	0.0	112.1	112.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
'01	0.0	166.9	166.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
'01	0.0	160.8	160.8	295.1	416.7	56.25:1	800.0	64.29:1	1400.0	16.0	0.6	0.6	0.6	0.6	1.1	1.5	0.47
'01	0.0	179.0	179.0	315.8	523.4	56.25:1	800.0	64.29:1	1400.0	16.0	16.9	16.9	16.9	16.9	1.0	1.5	0.56
'01	0.0	197.1	197.1	306.5	528.3	56.25:1	800.0	64.29:1	1400.0	16.0	17.0	17.0	17.0	17.0	1.1	1.5	0.48
'01	0.0	144.8	144.8	296.3	373.8	56.25:1	800.0	64.29:1	1400.0	16.0	12.5	12.5	12.5	12.5	0.8	1.5	0.74
)/01	0.0	168.7	168.7	<336.0	456.5	56.25:1	800.0	64.29:1	1400.0	16.0	14.7	14.7	14.7	14.7	1.3	2.0	0.73
/01	0.0	141.6	141.6	<336.0	360.9	56.25:1	800.0	64.29:1	1400.0	16.0	12.0	12.0	12.0	12.0	1.2	2.0	0.82
/01	0.0	121.3	121.3	<336.0	317.0	56.25:1	800.0	64.29:1	1400.0	16.0	10.2	10.2	10.2	10.2	0.6	2.0	1.35
'02	0.0	126.5	126.5	<336.0	325.0	56.25:1	800.0	64.29:1	1400.0	16.0	10.5	10.5	10.5	10.5	1.0	2.5	1.49
'02	0.0	103.5	103.5	<336.0	293.0	56.25:1	800.0	64.29:1	1400.0	16.0	10.5	10.5	10.5	10.5	1.0	2.5	1.49
M		1706	1706	1214	3594		7200		12600	144	105	105	105	105	9	17	8
ERAGE		142	142	303	399	56.25:1	800	64.29:1	1400	16	12	12	12	12	1	1.9	0.9
NIMUM		84	84	295	293		800		1400	16	1	1	1	1	1	1.5	0.5
XIMUM		197	197	<336.0	528		800		1400	16	17	17	17	17	1	2.5	1.5

Hydraulic Loading per Lamp = 8.9 AF/lamp

TE: - Data not available.

TABLE 2
TCE Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water	Treated Water	MCL (5ug/L)	Removal Efficiency, % With zero ug/L	Removal Efficiency, % With 0.5 ug/L
3/5/01	38	0	5	100.00	98.68
3/12/01	41	0	5	100.00	98.78
3/14/01	31.3	0	5	100.00	98.40
3/19/01	47	0	5	100.00	98.94
3/26/01	45	0	5	100.00	98.89
4/2/01	46	0	5	100.00	98.91
4/9/01	44	0	5	100.00	98.86
4/16/01	54	0	5	100.00	99.07
4/23/01	48	0	5	100.00	98.96
4/31/01	45	0	5	100.00	98.89
5/7/01	45	0	5	100.00	98.89
5/14/01	50	0	5	100.00	99.00
5/21/01	54	0	5	100.00	99.07
5/28/01	46	0	5	100.00	98.91
6/4/01	42	0	5	100.00	98.81
6/11/01	47	0	5	100.00	98.94
6/14/01	42	0	5	100.00	98.81
6/18/01	48	0	5	100.00	98.96
6/25/01	57	0	5	100.00	99.12
7/2/01	48	0	5	100.00	98.96
7/9/01	49	0	5	100.00	98.98
7/16/01	40	0	5	100.00	98.75
7/23/01	51	0	5	100.00	99.02
7/30/01	59	0	5	100.00	99.15
8/6/01	46	0	5	100.00	98.91
8/23/01	55	0	5	100.00	99.09
8/20/01	49	0	5	100.00	98.98
8/27/01	53	0	5	100.00	99.06
9/10/01	52	0	5	100.00	99.04
9/17/01	53	0	5	100.00	99.06
9/24/01	52	0	5	100.00	99.04
9/28/01	52	0	5	100.00	99.04
10/1/01	55	0	5	100.00	99.09
10/8/01	72	0	5	100.00	99.31
10/15/01	52	0	5	100.00	99.04
10/22/01	46	0	5	100.00	98.91
10/29/01	56	0	5	100.00	99.11
10/31/01	54	0	5	100.00	99.07
11/5/01	53	0	5	100.00	99.06
11/12/01	56	0	5	100.00	99.11
11/19/01	52	0	5	100.00	99.04
11/26/01	54	0	5	100.00	99.07
12/3/01	53	0	5	100.00	99.06
12/10/01	56	0	5	100.00	99.11
12/17/01	54	0	5	100.00	99.07
12/24/01	54	0	5	100.00	99.07
12/26/01	45	0	5	100.00	98.89
12/31/01	48	0	5	100.00	98.96
1/7/02	49	0	5	100.00	98.98
1/14/02	50	0	5	100.00	99.00
1/21/02	47	0	5	100.00	98.94
1/28/02	49	0	5	100.00	98.98
2/4/02	50	0	5	100.00	99.00
2/11/02	63	0	5	100.00	99.21
2/18/02	41	0	5	100.00	98.78
2/25/02	47	0	5	100.00	98.94
SUM	2785	0		5600	5543
AVERAGE	49.7	0.0		100.0	99.0
MINIMUM	31.3	0.0		100.0	98.4
MAXIMUM	72.0	0.0		100.0	99.3

TABLE 3
PCE Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water	Treated Water	MCL (5ug/L)	Removal Efficiency, % W/ zero ug/L	Removal Efficiency, % With 0.5 ug/L
3/5/01	3.6	0	5	100.00	86.11
3/12/01	4.4	0	5	100.00	88.64
3/14/01	2.5	0	5	100.00	80.00
3/19/01	4.4	0	5	100.00	88.64
3/26/01	3.8	0	5	100.00	86.84
4/2/01	3.5	0	5	100.00	85.71
4/9/01	3.4	0	5	100.00	85.29
4/16/01	3.7	0	5	100.00	86.49
4/23/01	3.8	0	5	100.00	86.84
4/31/01	4.3	0	5	100.00	88.37
5/7/01	3.8	0	5	100.00	86.84
5/14/01	3.8	0	5	100.00	86.84
5/21/01	4.4	0	5	100.00	88.64
5/28/01	2.9	0	5	100.00	82.76
6/4/01	3	0	5	100.00	83.33
6/11/01	3.6	0	5	100.00	86.11
6/14/01	2.8	0	5	100.00	82.14
6/18/01	4.3	0	5	100.00	88.37
6/25/01	3.5	0	5	100.00	85.71
7/2/01	3.5	0	5	100.00	85.71
7/9/01	3.3	0	5	100.00	84.85
7/16/01	2.8	0	5	100.00	82.14
7/23/01	3.4	0	5	100.00	85.29
7/30/01	3.7	0	5	100.00	86.49
8/6/01	2.8	0	5	100.00	82.14
8/23/01	4	0	5	100.00	87.50
8/20/01	4	0	5	100.00	87.50
8/27/01	3.9	0	5	100.00	87.18
9/10/01	3.1	0	5	100.00	83.87
9/17/01	3.2	0	5	100.00	84.38
9/24/01	4.1	0	5	100.00	87.80
9/28/01	3.9	0	5	100.00	87.18
10/1/01	4.4	0	5	100.00	88.64
10/8/01	4	0	5	100.00	87.50
10/15/01	3.9	0	5	100.00	87.18
10/22/01	3.9	0	5	100.00	87.18
10/29/01	4.2	0	5	100.00	88.10
10/31/01	3.7	0	5	100.00	86.49
11/5/01	4.2	0	5	100.00	88.10
11/12/01	4.2	0	5	100.00	88.10
11/19/01	4.2	0	5	100.00	88.10
11/26/01	4.1	0	5	100.00	87.80
12/3/01	4	0	5	100.00	87.50
12/10/01	3.7	0	5	100.00	86.49
12/17/01	4.2	0	5	100.00	88.10
12/24/01	4.3	0	5	100.00	88.37
12/26/01	4	0	5	100.00	87.50
12/31/01	4.6	0	5	100.00	89.13
1/7/02	3.6	0	5	100.00	86.11
1/14/02	4.2	0	5	100.00	88.10
1/21/02	4.5	0	5	100.00	88.89
1/28/02	3.8	0	5	100.00	86.84
2/4/02	4.4	0	5	100.00	88.64
2/11/02	4	0	5	100.00	87.50
2/18/02	4	0	5	100.00	87.50
2/25/02	4	0	5	100.00	87.50
SUM	213	0		5600	4851
AVERAGE	3.8	0.0		100.0	86.6
MINIMUM	2.5	0.0		100.0	80.0
MAXIMUM	4.6	0.0		100.0	89.1

TABLE 4

CTC Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water	Treated Water	MCL (0.5 ug\L)	Removal Efficiency, % With zero ug/L	Removal Efficiency, % With 0.5 ug/L
3/5/01	2.5	0	0.5	100.00	80.00
3/12/01	3.2	0	0.5	100.00	84.38
3/14/01	2.5	0	0.5	100.00	80.00
3/19/01	3.2	0	0.5	100.00	84.38
3/26/01	2.9	0	0.5	100.00	82.76
4/2/01	2.8	0	0.5	100.00	82.14
4/9/01	2.7	0	0.5	100.00	81.48
4/16/01	3.1	0	0.5	100.00	83.87
4/23/01	2.8	0	0.5	100.00	82.14
4/31/01	2.7	0	0.5	100.00	81.48
5/7/01	2.5	0	0.5	100.00	80.00
5/14/01	3	0	0.5	100.00	83.33
5/21/01	3.2	0	0.5	100.00	84.38
5/28/01	2.8	0	0.5	100.00	82.14
6/4/01	2.4	0	0.5	100.00	79.17
6/11/01	2.6	0	0.5	100.00	80.77
6/14/01	2.8	0	0.5	100.00	82.14
6/18/01	3.4	0	0.5	100.00	85.29
6/25/01	2.8	0	0.5	100.00	82.14
7/2/01	2.7	0	0.5	100.00	81.48
7/9/01	2.6	0	0.5	100.00	80.77
7/16/01	2.3	0	0.5	100.00	78.26
7/23/01	3.1	0	0.5	100.00	83.87
7/30/01	3.6	0	0.5	100.00	86.11
8/6/01	2.8	0	0.5	100.00	82.14
8/23/01	2.8	0	0.5	100.00	82.14
8/20/01	2.8	0	0.5	100.00	82.14
8/27/01	2.7	0	0.5	100.00	81.48
9/10/01	2.8	0	0.5	100.00	82.14
9/17/01	2.9	0	0.5	100.00	82.76
9/24/01	3.2	0	0.5	100.00	84.38
9/28/01	3.9	0	0.5	100.00	87.18
10/1/01	3.4	0	0.5	100.00	85.29
10/8/01	4.4	0	0.5	100.00	88.64
10/15/01	3	0	0.5	100.00	83.33
10/22/01	2.8	0	0.5	100.00	82.14
10/29/01	4	0	0.5	100.00	87.50
10/31/01	3.4	0	0.5	100.00	85.29
11/5/01	3.7	0	0.5	100.00	86.49
11/12/01	3.1	0	0.5	100.00	83.87
11/19/01	3	0	0.5	100.00	83.33
11/26/01	3.2	0	0.5	100.00	84.38
12/3/01	3.6	0	0.5	100.00	86.11
12/10/01	3.9	0	0.5	100.00	87.18
12/17/01	2.7	0	0.5	100.00	81.48
12/24/01	2.8	0	0.5	100.00	82.14
12/26/01	2.4	0	0.5	100.00	79.17
12/31/01	3.2	0	0.5	100.00	84.38
1/7/02	2.8	0	0.5	100.00	82.14
1/14/02	2.8	0	0.5	100.00	82.14
1/21/02	3.6	0	0.5	100.00	86.11
1/28/02	2.4	0	0.5	100.00	79.17
2/4/02	3	0	0.5	100.00	83.33
2/11/02	2.7	0	0.5	100.00	81.48
2/18/02	2.7	0	0.5	100.00	81.48
2/25/02	2.8	0	0.5	100.00	82.14
SUM	168	0		5600	4646
AVERAGE	3.0	0.0		100.0	83.0
MINIMUM	2.3	0.0		100.0	78.3
MAXIMUM	4.4	0.0		100.0	88.6

TABLE 5
1,2-DCA Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water	Treated Water	MCL (0.5 ug\L)	Removal Efficiency, % With zero ug/L	Removal Efficiency, % With 0.5 ug/L
3/5/01	2.6	0	0.5	100.00	80.77
3/12/01	3	0	0.5	100.00	83.33
3/14/01	2.6	0	0.5	100.00	80.77
3/19/01	3.1	0	0.5	100.00	83.87
3/26/01	2.9	0	0.5	100.00	82.76
4/2/01	2.8	0	0.5	100.00	82.14
4/9/01	2.8	0	0.5	100.00	82.14
4/16/01	3	0	0.5	100.00	83.33
4/23/01	2.8	0	0.5	100.00	82.14
4/31/01	2.7	0	0.5	100.00	81.48
5/7/01	2.4	0	0.5	100.00	79.17
5/14/01	2.8	0	0.5	100.00	82.14
5/21/01	3.4	0	0.5	100.00	85.29
5/28/01	3.4	0	0.5	100.00	85.29
6/4/01	2.7	0	0.5	100.00	81.48
6/11/01	2.6	0	0.5	100.00	80.77
6/14/01	2.8	0	0.5	100.00	82.14
6/18/01	3.2	0	0.5	100.00	84.38
6/25/01	2.7	0	0.5	100.00	81.48
7/2/01	2.9	0	0.5	100.00	82.76
7/9/01	2.5	0	0.5	100.00	80.00
7/16/01	2.1	0	0.5	100.00	76.19
7/23/01	3.1	0	0.5	100.00	83.87
7/30/01	3.7	0	0.5	100.00	86.49
8/6/01	3.2	0	0.5	100.00	84.38
8/23/01	3.1	0	0.5	100.00	83.87
8/20/01	3.4	0	0.5	100.00	85.29
8/27/01	3.2	0	0.5	100.00	84.38
9/10/01	4	0	0.5	100.00	87.50
9/17/01	3.8	0	0.5	100.00	86.84
9/24/01	3.1	0	0.5	100.00	83.87
9/28/01	3.4	0	0.5	100.00	85.29
10/1/01	3.4	0	0.5	100.00	85.29
10/8/01	4.5	0	0.5	100.00	88.89
10/15/01	3.1	0	0.5	100.00	83.87
10/22/01	3	0	0.5	100.00	83.33
10/29/01	4.6	0	0.5	100.00	89.13
10/31/01	4.1	0	0.5	100.00	87.80
11/5/01	4.2	0	0.5	100.00	88.10
11/12/01	3.2	0	0.5	100.00	84.38
11/19/01	3.2	0	0.5	100.00	84.38
11/26/01	3.2	0	0.5	100.00	84.38
12/3/01	3.4	0	0.5	100.00	85.29
12/10/01	3.8	0	0.5	100.00	86.84
12/17/01	2.5	0	0.5	100.00	80.00
12/24/01	2.8	0	0.5	100.00	82.14
12/26/01	2.6	0	0.5	100.00	80.77
12/31/01	3.7	0	0.5	100.00	86.49
1/7/02	2.9	0	0.5	100.00	82.76
1/14/02	3	0	0.5	100.00	83.33
1/21/02	3.4	0	0.5	100.00	85.29
1/28/02	3.2	0	0.5	100.00	84.38
2/4/02	3.8	0	0.5	100.00	86.84
2/11/02	3	0	0.5	100.00	83.33
2/18/02	3	0	0.5	100.00	83.33
2/25/02	3.4	0	0.5	100.00	85.29
SUM	177	0		5600	4691
AVERAGE	3.2	0.0		100.0	83.8
MINIMUM	2.1	0.0		100.0	76.2
MAXIMUM	4.6	0.0		100.0	89.1

TABLE 6
Perchlorate Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water	Treated Water	AL (4 ug/L)	Removal Efficiency, %
3/5/01	60	0	18	100.00
3/12/01	67	0	18	100.00
3/14/01	66.6		18	100.00
3/19/01	71	0	18	100.00
3/26/01	68	0	18	100.00
4/2/01	72	0	18	100.00
4/9/01	69	0	18	100.00
4/16/01	76	0	18	100.00
4/23/01	74	0	18	100.00
4/31/01	64	0	18	100.00
5/7/01	68	4.8	18	92.94
5/14/01	62	0	18	100.00
5/21/01	66	0	18	100.00
5/28/01	66	0	18	100.00
6/4/01	66	0	18	100.00
6/11/01	69	0	18	100.00
6/14/01	71.1		18	100.00
6/18/01	68	0	18	100.00
6/25/01	67	0	18	100.00
7/2/01	70	0	18	100.00
7/9/01	66	0	18	100.00
7/16/01	67	0	18	100.00
7/23/01	72	0	18	100.00
7/30/01	63	0	18	100.00
8/6/01	66	4	18	93.94
8/23/01	71	4.1	18	94.23
8/20/01	65	4.1	18	93.69
8/27/01	67	4	18	94.03
9/10/01	66	0	18	100.00
9/17/01	66	4.5	18	93.18
9/24/01	65	0	18	100.00
9/28/01	63		18	100.00
10/1/01	63	0	18	100.00
10/8/01	64	0	18	100.00
10/15/01	62	0	18	100.00
10/22/01	65	0	18	100.00
10/24/01	64		18	100.00
10/29/01	63	0	18	100.00
10/31/01	66	4.3	18	93.48
11/5/01	66	0	18	100.00
11/12/01	64	0	18	100.00
11/19/01	58	0	18	100.00
11/26/01	60	0	18	100.00
12/3/01	60	0	18	100.00
12/10/01	60	0	18	100.00
12/17/01	61	0	18	100.00
12/24/01	58	0	18	100.00
12/31/01	57	0	18	100.00
1/7/02	59	0	18	100.00
1/14/02	57	0	18	100.00
1/21/02	65	0	4	100.00
1/28/02	64	0	4	100.00
2/4/02	67	0	4	100.00
2/11/02	63	0	4	100.00
2/18/02	63	0	4	100.00
2/25/02	59	0	4	100.00
SUM	3646	30		5555
AVERAGE	65.1	0.6		99.2
MINIMUM	57.0	0.0		92.9
MAXIMUM	76.0	4.8		100.0

TABLE 7
1,4-Dioxane Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water	Treated Water	AL (3 ug/L)	Removal Efficiency, %
3/5/01	2.2	0	3	100.00
3/12/01	3.4	1.1	3	67.65
3/19/01	3.3	0	3	100.00
3/26/01	1.7	0	3	100.00
4/2/01	1.6	0.8	3	50.00
4/9/01	1.7	0	3	100.00
4/16/01	2.3	0	3	100.00
4/23/01	2.2	0	3	100.00
4/31/01	2.1	0	3	100.00
5/7/01	2.1	0	3	100.00
5/14/01	3.1	0	3	100.00
5/21/01	1.7	0	3	100.00
5/28/01	2.5	0	3	100.00
6/4/01	2.2	0	3	100.00
6/11/01	2.1	0	3	100.00
6/18/01	2	0	3	100.00
6/25/01	2.1	0	3	100.00
7/2/01	2	0	3	100.00
7/9/01	1.8	0	3	100.00
7/16/01	1.6	0	3	100.00
7/23/01	2	0	3	100.00
7/30/01	2	0	3	100.00
8/6/01	1.9	0.63	3	66.84
8/23/01	2.7	0	3	100.00
8/20/01	2.8	0.7	3	75.00
8/27/01	2.2	0	3	100.00
9/10/01	1.6	0	3	100.00
9/17/01	2.1	0	3	100.00
9/24/01	2.1	0	3	100.00
10/1/01	2.2	0	3	100.00
10/8/01	2.4	0	3	100.00
10/15/01	2.4	0	3	100.00
10/22/01	2.3	0	3	100.00
10/24/01	2.2		3	100.00
10/29/01	2.1	0	3	100.00
11/5/01	1.9	0	3	100.00
11/12/01	2	0	3	100.00
11/19/01	2.1	0	3	100.00
11/26/01	1.9	0	3	100.00
12/3/01	2	0	3	100.00
12/10/01	2.2	0	3	100.00
12/17/01	2.2	0	3	100.00
12/24/01	1.8	0	3	100.00
12/31/01	1.4	0	3	100.00
1/7/02	1.7	0	3	100.00
1/14/02	1.8	0	3	100.00
1/21/02	1.7	0	3	100.00
1/28/02	1.7	0	3	100.00
2/4/02	1.8	0	3	100.00
2/11/02	1.9	0	3	100.00
2/18/02	1.7	0	3	100.00
2/25/02	2	0	3	100.00
SUM	109	3		5059
AVERAGE	2.1	0.1		97.3
MINIMUM	1.4	0.0		50.0
MAXIMUM	3.4	1.1		100.0

TABLE 9
Nitrate Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water	Treated Water	MCL (45 mg/L)	Removal Efficiency, %
3/5/01	27	0	45	100.00
3/12/01	27	0	45	100.00
3/14/01	26.5		45	100.00
3/19/01	26	0	45	100.00
3/26/01	27	0	45	100.00
4/2/01	27	0	45	100.00
4/9/01	27	0	45	100.00
4/16/01	26	0	45	100.00
4/23/01	27	0	45	100.00
4/31/01	28	0	45	100.00
5/7/01	27	0	45	100.00
5/14/01	28	0	45	100.00
5/21/01	28	0	45	100.00
5/28/01	28	0	45	100.00
6/4/01	27	0	45	100.00
6/11/01	27	0	45	100.00
6/14/01	25.9		45	100.00
6/18/01	27	0	45	100.00
6/25/01	27	0	45	100.00
7/2/01	27	0.23	45	99.15
7/9/01	27	0	45	100.00
7/16/01	28	0.21	45	99.25
7/23/01	26	0	45	100.00
7/30/01	26	0.21	45	99.19
8/6/01	25	0	45	100.00
8/23/01	26	0	45	100.00
8/20/01	26	0.56	45	97.85
8/27/01	26	0	45	100.00
9/10/01	27	0	45	100.00
9/17/01	26	0	45	100.00
9/24/01	26	0	45	100.00
9/28/01	27		45	100.00
10/1/01	26	0.22	45	99.15
10/8/01	26	0	45	100.00
10/15/01	27	0	45	100.00
10/22/01	27	0.23	45	99.15
10/24/01	26		45	100.00
10/29/01	26	0.37	45	98.58
11/5/01	25	0	45	100.00
11/12/01	26	0	45	100.00
11/19/01	26	0	45	100.00
11/26/01	24	0	45	100.00
12/3/01	26	0	45	100.00
12/10/01	25	0.2	45	99.20
12/17/01	25	0	45	100.00
12/24/01	26	0	45	100.00
12/26/01	26		45	100.00
12/31/01	27	0	45	100.00
1/7/02	27	0	45	100.00
1/14/02	27	0	45	100.00
1/21/02	27	0	45	100.00
1/28/02	27	0	45	100.00
2/4/02	27	0	45	100.00
2/11/02	27	0	45	100.00
2/18/02	26	0	45	100.00
2/25/02	26	0	45	100.00
SUM	1484	2		5592
AVERAGE	26.5	0.0		99.8
MINIMUM	24.0	0.0		97.8
MAXIMUM	28.0	0.6		100.0

TABLE 10
Sensitivity of Prior Source Monitoring
La Puente Valley County Water District Treatment Facility

Contaminant	Historic High (ug/L)	Well No. 3 2001-02 Operation Data (ug/L)		
		Minimum	Average	Maximum
TCE	89.5	31.3	50.0	72.0
PCE	6.3	2.5	3.8	4.6
CTC	7.1	2.3	3.0	4.4
1,2-DCA	6.5	2.1	3.2	4.6
Perchlorate	163	57.0	65.0	76.0
1,4- Dioxane	3.4	1.4	2.1	3.4
NDMA	1.6	0.020	0.4	0.6
Nitrate	34000	24000	26500	28000

APPENDIX A

ISEP RESIN

NSF CERTIFICATION

International Headquarters and Laboratory
4151 Naperville Road Lisle, Illinois USA 60532-1088
Telephone 630 505 0160 Facsimile 630 505 9637

WATER QUALITY ASSOCIATION

CERTIFICATE OF VALIDATION

This is to certify that the drinking water system component herein has been independently tested and validated by the Water Quality Association in accordance with "Drinking Water System Components - Health Effects," NSF/ANSI-61-2001. The material safety of the component listed has earned the Gold Seal.

Manufacturer:	Calgon Carbon Corporation
Address:	P O Box 817 Pittsburgh, PA 16117
Model:	CalRes 2000
Product Type:	Process Media
Size	N/A
Water Contact Temp:	CLD 23
Water Contact Material	SYN
Listing Notes:	Ion Exchange Resin
Initial Date:	Thursday, April 18, 2002
Expiration Date:	Saturday, April 05, 2003
Test Series Number:	02076.001
Report Number:	CRT.041802.02076001

Joseph F. Harrison, P.E., CWS-VI — 04/26/02 **Date**

APPENDIX B

HYDROGEN PEROXIDE RESIN

NSF CERTIFICATION

NSF Product and Service Listings

These Listings were Last Updated on **Thursday, April 11, 2002** at 8:00 PM Eastern Standard Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

ANSI/NSF STANDARD 60
Drinking Water Treatment Chemicals - Health Effects

FMC CORPORATION
1735 MARKET STREET
PHILADELPHIA, PA 19103
215-299-6000

Plant at: NEWARK, CA

Hydrogen Peroxide

Trade Designation	*Product Function*	*Max Use*
Oxypure Hydrogen Peroxide 35%[2]	Disinfection & Oxidation	3 mg/L
OxyPure Hydrogen Peroxide 50%[1]	Disinfection & Oxidation	2 mg/L

[1] This product may be used for sulfide control and in conjunction with ozone for control at a use level of 60 mg/L when followed by chlorination of the treated
[2] This product may be used for sulfide control and in conjunction with ozone for control at a use level of 85 mg/L when followed by chlorination of the treated

NOTE: All Listed products from this production location are NSF Certified, whether bear the NSF Mark.

Number of matching Manufacturers is 1
Number of matching Products is 2
Processing time was 0 seconds

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APPENDIX C

SODIUM CHLORIDE

NSF CERTIFICATION

NSF Product and Service Listings

These Listings were Last Updated on **Thursday, April 11, 2002** at 8:00 PM Eastern Standard Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

ANSI/NSF STANDARD 60
Drinking Water Treatment Chemicals - Health Effects

CARGILL SALT
400 SOUTH HIGHWAY 169
SUITE 600
ST. LOUIS PARK, MN 55426
952-984-8280

Plant at: NEWARK, CA

Sodium Chloride[1] [CL]

Trade Designation	*Product Function*	*Max Use*
CMF Evaporated Salt (CMF EVAP)	Other	N/A
Diamond Crystal® Pellets (DC PELLET)	Other	N/A
Hi-Grade Evaporated Salt (HI GRADE)	Other	N/A
Kiln Dried Solar Salt, Coarse (KD COARSE)	Other	N/A
Pro's Pick® Solar Salt (PROS PICK SOLAR)	Other	N/A

[1] Certified for use in the electrochlorination process for on-site disinfectant g
[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: All Listed products from this production location are NSF Certified whether or not they bear the NSF Mark.

MORTON INTERNATIONAL - MORTON SALT
100 N. RIVERSIDE PLAZA
CHICAGO, IL 60606
312-807-2000

Plant at: 0105 NEWARK, CA

Sodium Chloride [CL]

Trade Designation	*Product Function*	*Max Use*
Bulk Culinox® 999 Food Grade Salt[1]	Other	NA
Morton® Culinox® 999® Food Grade Salt[1]	Other	NA

[1] Certified for use in the electrochlorination process for on-site disinfectant g as well as softener resin regeneration.
[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Number of matching Manufacturers is 2
Number of matching Products is 7
Processing time was 0 seconds

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APPENDIX D

CHLORINE

NSF CERTIFICATION

NSF Product and Service Listings

These Listings were Last Updated on **Thursday, April 11, 2002** at 8:00 PM Eastern Standard Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

ANSI/NSF STANDARD 60
Drinking Water Treatment Chemicals - Health Effects

DX SYSTEMS COMPANY

Cert-Link (Click here to visit this Company's Website)

300 JACKSON HILL
P.O. BOX 130410
HOUSTON, TX 77219-0410
281-457-4835

Plant at: FONTANA, CA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Plant at: STOCKTON, CA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

PIONEER AMERICAS LLC

700 LOUISIANA STREET

SUITE 4300
HOUSTON, TX 77002
713-570-3202

Plant at: SANTA FE SPRINGS, CA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine Gas	Disinfection & Oxidation Algicide	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: All trade names from this location that are Listed above are NSF Certified, whether or not the product bears the NSF Mark.

Plant at: TRACY, CA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine Gas	Disinfection & Oxidation Algicide	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: All trade names from this location that are Listed above are NSF Certified, whether or not the product bears the NSF Mark.

SIERRA CHEMICAL COMPANY

2302 LARKIN CIRCLE
SPARKS, NV 89431
800-777-8965
775-358-0888

Plant at: STOCKTON, CA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*

Chlorine	Disinfection & Oxidation	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: All Listed products from this production location are NSF Certified, whether or not they bear the NSF Mark.

Number of matching Manufacturers is 3
Number of matching Products is 5
Processing time was 0 seconds

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APPENDIX E

ANNUAL SOURCE AND TREATED WATER QUALITY RESULTS

Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: *Wednesday, November 21, 2001*
Received Date: *Wednesday, October 24, 2001*
Log By: tn
Log Time: 11:27

Client: Stetson Engineers, Inc.
3104 East Garvey Avenue
West Covina, CA 91791
Attn.: Kevin Smead

Phone: (626) 967-6202
FAX: (626) 331-7065

Project: LPVCWD DHS Permit

P.O. #: 1789-22
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A107285-001 **Sample ID:** Well 3 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Total Hardness as CaCO3	200		mg/L	1	2.0	SM 2340B	10/29/2001	na	WS28738
Prep. Method: EPA 200.2									
Calcium	56		mg/L	1	0.10	EPA 200.7	10/26/2001	na	WS28731
Magnesium	14		mg/L	1	0.10	EPA 200.7	10/26/2001	na	WS28731
Potassium	3.0		mg/L	1	0.10	EPA 200.7	10/26/2001	na	WS28731
Sodium	23		mg/L	1	0.50	EPA 200.7	10/26/2001	na	WS28731
Iron	ND		ug/L	1	20	EPA 200.7	10/26/2001	na	WS28731
Cerium	ND		ug/L	1	10.0	EPA 200.7	10/26/2001	na	WS28731
Lithium	ND		ug/L	1	10.0	EPA 200.7	10/26/2001	na	WS28731
Boron	49		ug/L	1	10.0	EPA 200.7	10/26/2001	na	WS28731
Silicon	12		mg/L	1	0.04	EPA 200.7	10/26/2001	na	WS28731
Total cations	5.0		meq/L	1		Calculation	11/13/2001	na	WS29157
Alkalinity as CaCO3	190		mg/L	1	2.0	SM 2320B	10/31/2001	td	WS28818
Hydroxide alkalinity as CaCO3	ND		mg/L	1	2.0	SM 2320 B	10/31/2001	TD	WS28848
Carbonate alkalinity as CaCO3	ND		mg/L	1	2.0	SM 2320B	10/31/2001	TD	WS28847
Bicarbonate as HCO3	240		mg/L	1	2.0	SM 2320B	10/31/2001	td	WS28820
Total anions	5.4		meq/L	1		Calculation	11/13/2001	na	WS29158
pH	7.44		Units	1		SM 4500H B	10/24/2001	AJ	WS28651
Conductivity	500		umho/cm	1	2.0	SM 2510B			WS28855
Total dissolved solids	310		mg/L	1	10.0	SM 2540C	10/25/2001	aw	WS28752
MBAS, calculated as LAS, MW 342	ND		mg/L	1	0.05	SM 5540 C	10/25/2001	td	WS28702
Prep. Method: EPA 200.2									
Aluminum	ND		ug/L	1	10.0	EPA 200.8	10/29/2001	at	WS28771
Antimony	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Arsenic	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Barium	90		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Beryllium	ND		ug/L	1	0.30	EPA 200.8	10/29/2001	at	WS28771
Cadmium	ND		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Chromium, total	ND		ug/L	1	4.0	EPA 200.8	10/29/2001	at	WS28771
Copper	3.6		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Lead	ND		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771
Manganese	ND		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Client: Stetson Engineers, Inc.
Project Name: LPVCWD DHS Permit

Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A107285-001 **Sample ID:** Well 3 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nickel	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Selenium	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Silver	ND		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Thallium	ND		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Zinc	ND		ug/L	1	10.0	EPA 200.8	10/29/2001	at	WS28771
Cobalt	0.34		ug/L	1	0.20	EPA 200.8	10/29/2001	at	WS28771
Molybdenum	3.7		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771
Vanadium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Strontium	260		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771
Tin	ND		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Titanium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Thorium	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Tungsten	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Uranium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Zirconium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Prep. Method: EPA 245.1									
Mercury	0.24		ug/L	1	0.10	EPA 245.1	10/25/2001	pm	WS28661
Prep. Method: SM 4500CN									
Cyanide, total	ND		mg/L	1	0.05	SM 4500CN E	10/26/2001	td	WS28805
Fluoride	0.45		mg/L	1	0.050	EPA 300.0	10/24/2001	hn	WS28680
Chloride	17		mg/L	1	0.20	EPA 300.0	10/24/2001	hn	WS28680
Nitrate as NO3	26		mg/L	1	0.20	EPA 300.0	10/24/2001	hn	WS28680
Sulfate	33		mg/L	1	0.50	EPA 300.0	10/24/2001	hn	WS28680
Nitrite as N	ND		mg/L	1	0.060	EPA 300.0	10/24/2001	hn	WS28680
Nitrate+nitrite as N	6.0		mg/L	1	0.050	EPA 300.0	10/24/2001	hn	WS28680
Color	ND		Units	1	3	EPA 110.2	10/25/2001	aw	WS28670
pH for color determination	7.0		Units	1		EPA 110.2	10/25/2001	aw	WS28670
Odor	1		TON	1	1	EPA 140.1	10/25/2001	aw	WS28669
Turbidity	0.16		NTU	1	0.10	EPA 180.1	10/25/2001	aw	WS28668
Chromium, hexavalent (Cr VI)	3.9		ug/L	1	0.50	EPA 218.6	10/24/2001	dc	WS28652
Perchlorate	64		ug/L	1	4.0	EPA 314	11/9/2001	dc	WS29102
Prep. Method: EPA 3520C Date: 10/30/2001	***By em***								
N-Nitroso-dimethylamine	310		ng/L	1	2.0	EPA 1625M	10/31/2001	EM	WS28867
Prep. Method: EPA 8330 Date: 10/31/2001	***By jl***								
HMX	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Hexahydro-1,3,5-trinitro-1,3,5-triazine	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
1,3,5-Trinitrobenzene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
1,3-Dinitrobenzene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Methyl-2,4,6-trinitrophenylnitramine	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Nitrobenzene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2,4,6-Trinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
4-Amino-2,6-dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2-Amino-4,6-dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2,6-Dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2,4-Dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419

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CERTIFICATE OF ANALYSIS

Lab#: A107285-001 **Sample ID:** Well 3 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
2-Nitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
4-Nitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
3-Nitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Gross alpha	3.17		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Gross alpha counting error (+/-)	0.76		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Gross beta	1.57		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Gross beta counting error (+/-)	2.06		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Aldicarb Sulfoxide	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Aldicarb Sulfone	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Oxamyl (VYDATE)	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Methomyl	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
3-Hydroxycarbofuran	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Aldicarb (TEMIK)	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Propoxur	ND		ug/L	1	5.0	EPA 531.1	10/29/2001	dc	WS28901
Carbofuran (Furadan)	ND		ug/L	1	5.0	EPA 531.1	10/29/2001	dc	WS28901
Carbaryl	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Methiocarb	ND		ug/L	1	3.0	EPA 531.1	10/29/2001	dc	WS28901
Prep. Method: EPA 549.2 Date: 10/25/2001	***By hp***								
Diquat	ND		ug/L	1	4.0	EPA 549.2	11/8/2001	dc	WS29358
Paraquat	ND		ug/L	1	4.0	EPA 549.2	11/8/2001	dc	WS29358
Prep. Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.020	EPA 504.1	10/27/2001	tp	WS28712
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	0.010	EPA 504.1	10/27/2001	tp	WS28712
1,2,3-Trichloropropane	ND		ug/L	1	0.050	EPA 504.1	10/27/2001	tp	WS28712
Dichlorodifluoromethane	4.0		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Chloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Vinyl chloride	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Bromomethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Chloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Acrolein	ND		ug/L	1	10	EPA 8260B	10/31/2001	an	WS29026
Acrylonitrile	ND		ug/L	1	10	EPA 8260B	10/31/2001	an	WS29026
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Acetone	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
1,1-Dichloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Methylene chloride (Dichloromethane)	ND		ug/L	1	5.0	EPA 8260B	10/31/2001	an	WS29026
trans-1,2-Dichloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Methyl tert-Butyl Ether (MTBE)	ND		ug/L	1	3	EPA 8260B	10/31/2001	an	WS29026
1,1-Dichloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
2,2-Dichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
cis-1,2-Dichloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
Bromochloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Chloroform	1.6		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,1,1-Trichloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Carbon tetrachloride	2.6		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026

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CERTIFICATE OF ANALYSIS

Lab#: A107285-001 **Sample ID:** Well 3 **Matrix:** Ground Water
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1,1-Dichloropropene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Benzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,2-Dichloroethane	1.4		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Trichloroethene	40		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,2-Dichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Dibromomethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Bromodichloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
2-Chloroethylvinyl ether	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
cis-1,3-Dichloropropene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
4-Methyl-2-pentanone (MIBK)	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
Toluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
trans-1,3-Dichloropropene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,1,2-Trichloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Tetrachloroethene	2.5		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,3-Dichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
2-Hexanone	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
Dibromochloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,2-Dibromoethane (EDB)	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Chlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Ethyl benzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
m/p-Xylenes	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
o-Xylene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Styrene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Bromoform	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Isopropylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,1,2,2-Tetrachloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Bromobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,2,3-Trichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
n-Propylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
2-Chlorotoluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
4-Chlorotoluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,3,5-Trimethylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
tert-Butylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,2,4-Trimethylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
sec-Butylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,3-Dichlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
4-Isopropyltoluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,4-Dichlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,2-Dichlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
n-Butylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
1,2,4-Trichlorobenzene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001	an	WS29026
Hexachlorobutadiene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001	an	WS29026
1,1,1,2-Tetrachloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Naphthalene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001	an	WS29026

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Lab#: A107285-001 **Sample ID:** Well 3 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

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1,2,3-Trichlorobenzene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001	an	WS29026
Tentatively Identified Compounds	Not detected			1		EPA 8260B	10/31/2001	an	WS29026
Prep. Method: EPA 3510C Date: 10/31/2001		***By th***							
Pyridine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
N-Nitroso-dimethylamine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Phenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Chlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,3-Dichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,4-Dichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,2-Dichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Methylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis(2-Chloroisopropyl) ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
3- & 4-Methylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
N-Nitroso-di-n-propylamine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Hexachloroethane	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Nitrobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Isophorone	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Nitrophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dimethylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis(2-Chloroethoxy) methane	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dichlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,2,4-Trichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Naphthalene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Chloroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzoic Acid	ND		ug/L	1	50	EPA 8270C	11/4/2001	bn	WS29001
Hexachlorobutadiene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Chloro-3-Methylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Methylnaphthalene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Hexachlorocyclopentadiene	ND		ug/L	1	20	EPA 8270C	11/4/2001	bn	WS29001
2,4,6-Trichlorophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
2,4,5-Trichlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Chloronaphthalene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Nitroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Acenaphthylene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Dimethyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,6-Dinitrotoluene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
3-Nitroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Acenaphthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dinitrophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
Dibenzofuran	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dinitrotoluene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Nitrophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
Fluorene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Chlorophenyl phenyl ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001

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Diethyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Nitroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Azobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,2-Diphenylhydrazine as Azobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
N-Nitroso-diphenylamine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4,6-Dinitro-2-methylphenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
4-Bromophenyl phenyl ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Hexachlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Pentachlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Phenanthrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Anthracene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Carbazole	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
di-n-Butyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Fluoranthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzidine	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
Pyrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Butyl benzyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (a) Anthracene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Chrysene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
3,3'-dichlorobenzidine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis (2-Ethylhexyl) phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
di-n-Octyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (b) Fluoranthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (k) Fluoranthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (a) Pyrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Indeno (1,2,3-cd) Pyrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Dibenzo (a,h) Anthracene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (g,h,i) Perylene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzyl alcohol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Tentatively Identified Compounds	Not detected			1		EPA 8270C	11/4/2001	bn	WS29001
Prep. Method: EPA 3510C Date: 10/30/2001	***By th***								
1,4-Dioxane	2.2		ug/L	1	0.50	EPA 8270M	11/5/2001	sn	WS28979
Dichlorodifluoromethane	5.1		ug/L	1	0.5	EPA 524.2	10/29/2001	rt	WS28776
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001	rt	WS28776
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	10/29/2001	rt	WS28776
1,1-Dichloroethene	0.54		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Methyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001	rt	WS28776
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001	rt	WS28776

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Client: Stetson Engineers, Inc.
Project Name: LPVCWD DHS Permit

Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A107285-001 **Sample ID:** Well 3 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
cis-1,2-Dichloroethene	1.2		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Chloroform	1.8		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Carbon tetrachloride	2.8		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dichloroethane	3.6		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Trichloroethene (TCE)	48		ug/L	5	2.5	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001 rt	WS28776
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	10/29/2001 rt	WS28776
Toluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Tetrachloroethene (PCE)	3.6		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Styrene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromoform	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
4-Isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776

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Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A107285-001 **Sample ID:** Well 3 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	10/29/2001 rt	WS28776
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001 rt	WS28776
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001 rt	WS28776
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	10/29/2001 rt	WS28776
Di-isopropyl ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001 rt	WS28776

CASE NARRATIVE:

There were no tentatively unidentified compounds present in the EPA 8260/8270 analyses based on a reference library of approximately 75,000 compounds.

Authorized Signature

ELAP # 1132
LACSD # 10143

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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Log By: tn
Log Time: 11:47

Client: Stetson Engineers, Inc.
3104 East Garvey Avenue
West Covina, CA 91791

Phone: (626) 967-6202
FAX: (626) 331-7065

Attn.: Kevin Smead

Project: LPVCWD DHS Permit

P.O. #: 1789-22
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Total Hardness as CaCO3	200		mg/L	1	2.0	SM 2340B	10/29/2001	na	WS28738
Prep. Method: EPA 200.2									
Calcium	56		mg/L	1	0.10	EPA 200.7	10/26/2001	na	WS28731
Magnesium	14		mg/L	1	0.10	EPA 200.7	10/26/2001	na	WS28731
Potassium	2.9		mg/L	1	0.10	EPA 200.7	10/26/2001	na	WS28731
Sodium	24		mg/L	1	0.50	EPA 200.7	10/26/2001	na	WS28731
Iron	ND		ug/L	1	20	EPA 200.7	10/26/2001	na	WS28731
Cerium	ND		ug/L	1	10.0	EPA 200.7	10/26/2001	na	WS28731
Lithium	ND		ug/L	1	10.0	EPA 200.7	10/26/2001	na	WS28731
Boron	46		ug/L	1	10.0	EPA 200.7	10/26/2001	na	WS28731
Silicon	12		mg/L	1	0.04	EPA 200.7	10/26/2001	na	WS28731
Total cations	5.1		meq/L	1		Calculation	11/13/2001	na	WS29157
Alkalinity as CaCO3	62		mg/L	1	2.0	SM 2320B	10/31/2001	td	WS28818
Hydroxide alkalinity as CaCO3	ND		mg/L	1	2.0	SM 2320 B	10/31/2001	TD	WS28848
Carbonate alkalinity as CaCO3	ND		mg/L	1	2.0	SM 2320B	10/31/2001	TD	WS28847
Bicarbonate as HCO3	76		mg/L	1	2.0	SM 2320B	10/31/2001	td	WS28820
Total anions	5.5		meq/L	1		Calculation	11/13/2001	na	WS29158
pH	7.05		Units	1		SM 4500H B	10/24/2001	AJ	WS28651
Conductivity	600		umho/cm	1	2.0	SM 2510B			WS28855
Total dissolved solids	480		mg/L	1	10.0	SM 2540C	10/25/2001	aw	WS28752
MBAS, calculated as LAS, MW 342	ND		mg/L	1	0.05	SM 5540 C	10/25/2001	td	WS28702
Prep. Method: EPA 200.2									
Aluminum	ND		ug/L	1	10.0	EPA 200.8	10/29/2001	at	WS28771
Antimony	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Arsenic	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Barium	91		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Beryllium	ND		ug/L	1	0.30	EPA 200.8	10/29/2001	at	WS28771
Cadmium	ND		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Chromium, total	ND		ug/L	1	4.0	EPA 200.8	10/29/2001	at	WS28771
Copper	180		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Lead	31		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771
Manganese	ND		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771

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Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Nickel	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Selenium	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Silver	ND		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Thallium	1.8		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Zinc	ND		ug/L	1	10.0	EPA 200.8	10/29/2001	at	WS28771
Cobalt	0.24		ug/L	1	0.20	EPA 200.8	10/29/2001	at	WS28771
Molybdenum	ND		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771
Vanadium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Strontium	260		ug/L	1	1.0	EPA 200.8	10/29/2001	at	WS28771
Tungsten	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Titanium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Tin	4.6		ug/L	1	0.50	EPA 200.8	10/29/2001	at	WS28771
Thorium	ND		ug/L	1	2.0	EPA 200.8	10/29/2001	at	WS28771
Uranium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Zirconium	ND		ug/L	1	5.0	EPA 200.8	10/29/2001	at	WS28771
Prep. Method: EPA 245.1									
Mercury	ND		ug/L	1	0.10	EPA 245.1	10/25/2001	pm	WS28661
Prep. Method: SM 4500CN									
Cyanide, total	ND		mg/L	1	0.05	SM 4500CN E	10/26/2001	td	WS28805
Fluoride	0.41		mg/L	1	0.050	EPA 300.0	10/24/2001	hn	WS28680
Chloride	150		mg/L	10	2.0	EPA 300.0	10/24/2001	hn	WS28680
Nitrate as NO3	ND		mg/L	1	0.20	EPA 300.0	10/24/2001	hn	WS28680
Sulfate	ND		mg/L	1	0.50	EPA 300.0	10/24/2001	hn	WS28680
Nitrite as N	ND		mg/L	1	0.060	EPA 300.0	10/24/2001	hn	WS28680
Nitrate+nitrite as N	ND		mg/L	1	0.050	EPA 300.0	10/24/2001	hn	WS28680
Color	ND		Units	1	3	EPA 110.2	10/25/2001	aw	WS28670
pH for color determination	7.0		Units	1		EPA 110.2	10/25/2001	aw	WS28670
Odor	1		TON	1	1	EPA 140.1	10/25/2001	aw	WS28669
Turbidity	ND		NTU	1	0.10	EPA 180.1	10/25/2001	aw	WS28668
Chromium, hexavalent (Cr VI)	ND		ug/L	1	0.50	EPA 218.6	10/24/2001	dc	WS28652
Perchlorate	ND		ug/L	1	4.0	EPA 314	11/9/2001	dc	WS29102
Prep. Method: EPA 3520C Date: 11/6/2001	***By em***								
N-Nitroso-dimethylamine	ND		ng/L	1	2.0	EPA 1625M	11/6/2001	EM	WS29029
Prep. Method: EPA 8330 Date: 10/31/2001	***By jl***								
HMX	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Hexahydro-1,3,5-trinitro-1,3,5-triazine	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
1,3,5-Trinitrobenzene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
1,3-Dinitrobenzene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Methyl-2,4,6-trinitrophenylnitramine	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Nitrobenzene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2,4,6-Trinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
4-Amino-2,6-dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2-Amino-4,6-dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2,6-Dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
2,4-Dinitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419

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CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
2-Nitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
4-Nitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
3-Nitrotoluene	ND		ug/L	1	1.0	EPA 8330	11/20/2001	dc	WS29419
Gross alpha	0.45		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Gross alpha counting error (+/-)	0.40		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Gross beta	2.39		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Gross beta counting error (+/-)	2.17		pCi/L	1		Sub-contract	11/3/2001	sub	WS28939
Aldicarb Sulfoxide	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Aldicarb Sulfone	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Oxamyl (VYDATE)	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Methomyl	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
3-Hydroxycarbofuran	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Aldicarb (TEMIK)	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Propoxur	ND		ug/L	1	5.0	EPA 531.1	10/29/2001	dc	WS28901
Carbofuran (Furadan)	ND		ug/L	1	5.0	EPA 531.1	10/29/2001	dc	WS28901
Carbaryl	ND		ug/L	1	2.0	EPA 531.1	10/29/2001	dc	WS28901
Methiocarb	ND		ug/L	1	3.0	EPA 531.1	10/29/2001	dc	WS28901
Prep. Method: EPA 549.2 Date: 10/25/2001		***By hp***							
Diquat	ND		ug/L	1	4.0	EPA 549.2	11/8/2001	dc	WS29358
Paraquat	ND		ug/L	1	4.0	EPA 549.2	11/8/2001	dc	WS29358
Prep. Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.020	EPA 504.1	10/27/2001	tp	WS28712
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	0.010	EPA 504.1	10/27/2001	tp	WS28712
1,2,3-Trichloropropane	ND		ug/L	1	0.050	EPA 504.1	10/27/2001	tp	WS28712
Dichlorodifluoromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Chloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Vinyl chloride	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Bromomethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Chloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Acrolein	ND		ug/L	1	10	EPA 8260B	10/31/2001	an	WS29026
Acrylonitrile	ND		ug/L	1	10	EPA 8260B	10/31/2001	an	WS29026
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Acetone	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
1,1-Dichloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Methylene chloride (Dichloromethane)	ND		ug/L	1	5.0	EPA 8260B	10/31/2001	an	WS29026
trans-1,2-Dichloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Methyl tert-Butyl Ether (MTBE)	ND		ug/L	1	3	EPA 8260B	10/31/2001	an	WS29026
1,1-Dichloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
2,2-Dichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
cis-1,2-Dichloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5	EPA 8260B	10/31/2001	an	WS29026
Bromochloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Chloroform	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
1,1,1-Trichloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026
Carbon tetrachloride	ND		ug/L	1	1.0	EPA 8260B	10/31/2001	an	WS29026

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Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
1,1-Dichloropropene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Benzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,2-Dichloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Trichloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,2-Dichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Dibromomethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Bromodichloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
2-Chloroethylvinyl ether	ND		ug/L	1	5	EPA 8260B	10/31/2001 an	WS29026
cis-1,3-Dichloropropene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5	EPA 8260B	10/31/2001 an	WS29026
Toluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
trans-1,3-Dichloropropene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,1,2-Trichloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Tetrachloroethene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,3-Dichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
2-Hexanone	ND		ug/L	1	5	EPA 8260B	10/31/2001 an	WS29026
Dibromochloromethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,2-Dibromoethane (EDB)	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Chlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Ethyl benzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
m/p-Xylenes	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
o-Xylene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Styrene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Bromoform	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Isopropylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,1,2,2-Tetrachloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Bromobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,2,3-Trichloropropane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
n-Propylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
2-Chlorotoluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
4-Chlorotoluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,3,5-Trimethylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
tert-Butylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,2,4-Trimethylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
sec-Butylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,3-Dichlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
4-Isopropyltoluene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,4-Dichlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,2-Dichlorobenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
n-Butylbenzene	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	5	EPA 8260B	10/31/2001 an	WS29026
1,2,4-Trichlorobenzene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001 an	WS29026
Hexachlorobutadiene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001 an	WS29026
1,1,1,2-Tetrachloroethane	ND		ug/L	1	1.0	EPA 8260B	10/31/2001 an	WS29026
Naphthalene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001 an	WS29026

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CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
1,2,3-Trichlorobenzene	ND		ug/L	1	5.0	EPA 8260B	10/31/2001	an	WS29026
Tentatively Identified Compounds	Not detected			1		EPA 8260B	10/31/2001	an	WS29026
Prep. Method: EPA 3510C Date: 10/31/2001 By th									
Pyridine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
N-Nitroso-dimethylamine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Phenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis(2-Chloroethyl) Ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Chlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,3-Dichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,4-Dichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,2-Dichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Methylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis(2-Chloroisopropyl) ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
3- & 4-Methylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
N-Nitroso-di-n-propylamine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Hexachloroethane	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Nitrobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Isophorone	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Nitrophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dimethylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis(2-Chloroethoxy) methane	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dichlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,2,4-Trichlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Naphthalene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Chloroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzoic Acid	ND		ug/L	1	50	EPA 8270C	11/4/2001	bn	WS29001
Hexachlorobutadiene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Chloro-3-Methylphenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Methylnaphthalene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Hexachlorocyclopentadiene	ND		ug/L	1	20	EPA 8270C	11/4/2001	bn	WS29001
2,4,6-Trichlorophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
2,4,5-Trichlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Chloronaphthalene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2-Nitroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Acenaphthylene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Dimethyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,6-Dinitrotoluene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
3-Nitroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Acenaphthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dinitrophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
Dibenzofuran	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
2,4-Dinitrotoluene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Nitrophenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
Fluorene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Chlorophenyl phenyl ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001

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CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
Diethyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4-Nitroaniline	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Azobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
1,2-Diphenylhydrazine as Azobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
N-Nitroso-diphenylamine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
4,6-Dinitro-2-methylphenol	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
4-Bromophenyl phenyl ether	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Hexachlorobenzene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Pentachlorophenol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Phenanthrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Anthracene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Carbazole	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
di-n-Butyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Fluoranthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzidine	ND		ug/L	1	10.0	EPA 8270C	11/4/2001	bn	WS29001
Pyrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Butyl benzyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (a) Anthracene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Chrysene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
3,3'-dichlorobenzidine	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
bis (2-Ethylhexyl) phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
di-n-Octyl phthalate	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (b) Fluoranthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (k) Fluoranthene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (a) Pyrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Indeno (1,2,3-cd) Pyrene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Dibenzo (a,h) Anthracene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzo (g,h,i) Perylene	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Benzyl alcohol	ND		ug/L	1	5.0	EPA 8270C	11/4/2001	bn	WS29001
Tentatively Identified Compounds	Not detected			1		EPA 8270C	11/4/2001	bn	WS29001
Prep. Method: EPA 3510C Date: 10/30/2001		***By th***							
1,4-Dioxane	ND		ug/L	1	0.50	EPA 8270M	11/5/2001	sn	WS28979
Dichlorodifluoromethane	ND		ug/L	1	0.5	EPA 524.2	10/29/2001	rt	WS28776
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001	rt	WS28776
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	10/29/2001	rt	WS28776
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Methyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001	rt	WS28776
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001	rt	WS28776

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CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Chloroform	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
4-Methyl-2-pentanone (MiBK)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001	rt	WS28776
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	10/29/2001	rt	WS28776
Toluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Styrene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Bromoform	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
4-isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776

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Client: Stetson Engineers, Inc.
Project Name: LPVCWD DHS Permit

Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A107285-002 **Sample ID:** SP-6 **Matrix:** Ground Water
Sampled By: Chad Blais **Date:** 10/24/2001 **Time:** 9:20

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed		Worksheet #
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	10/29/2001	rt	WS28776
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001	rt	WS28776
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001	rt	WS28776
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001	rt	WS28776
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	10/29/2001	rt	WS28776
Di-isopropyl ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001	rt	WS28776

CASE NARRATIVE:

There were no tentatively unidentified compounds present in the EPA 8260/8270 analyses based on a reference library of approximately 75,000 compounds.

Authorized Signature

ELAP # 1132
LACSD # 10143

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
Q = QC result out of acceptance limits.
T = Trace detection, detected but below the reporting limit.

Notes:

The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless specified.
RL = Reporting Limit.
ND = Not detected, below the reporting limit.
Sub = Subcontracted analysis, original report enclosed.

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Report Date: *Wednesday, November 21, 2001*
Received Date: *Wednesday, October 24, 2001*
Log By: tn
Log Time: 11:49

Client: Stetson Engineers, Inc.
3104 East Garvey Avenue
West Covina, CA 91791
Attn.: Kevin Smead

Phone: (626) 967-6202
FAX: (626) 331-7065

Project: LPVCWD DHS Permit

P.O. #: 1789-22
Turnaround Time: Normal

CERTIFICATE OF ANALYSIS

Lab#: A107285-003 **Sample ID:** Travel Blank **Matrix:** Water
Sampled By: Chad Blais **Date:** 10/24/2001

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Dichlorodifluoromethane	ND		ug/L	1	0.5	EPA 524.2	10/29/2001 rt	WS28776
Chloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Vinyl chloride	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromomethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Chloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Trichlorofluoromethane (Freon 11)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001 rt	WS28776
Trichlorotrifluoroethane (Freon 113)	ND		ug/L	1	10	EPA 524.2	10/29/2001 rt	WS28776
1,1-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Methylene chloride (Dichloromethane)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
trans-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Methyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001 rt	WS28776
1,1-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
2-Butanone (Methyl ethyl ketone)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001 rt	WS28776
2,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
cis-1,2-Dichloroethene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromochloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Chloroform	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1,1-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Carbon tetrachloride	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Trichloroethene (TCE)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Dibromomethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromodichloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
cis-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
4-Methyl-2-pentanone (MIBK)	ND		ug/L	1	5.0	EPA 524.2	10/29/2001 rt	WS28776
2-Chloroethylvinyl ether	ND		ug/L	1	1.0	EPA 524.2	10/29/2001 rt	WS28776
Toluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
trans-1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1,2-Trichloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776

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Client: Stetson Engineers, Inc.
Project Name: LPVCWD DHS Permit

Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Lab#: A107285-003 **Sample ID:** Travel Blank **Matrix:** Water
Sampled By: Chad Blais **Date:** 10/24/2001

Parameter	Result	Flag	Units	Dilution Factor	RL	Method	Analyzed	Worksheet #
Tetrachloroethene (PCE)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,3-Dichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Dibromochloromethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dibromoethane (EDB)	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Chlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Ethyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
m/p-Xylenes	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
o-Xylene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Styrene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromoform	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Isopropylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Bromobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,1,2,2-Tetrachloroethane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2,3-Trichloropropane	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
n-Propyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
2-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
4-Chlorotoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,3,5-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
tert-Butyl benzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2,4-Trimethylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
sec-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,3-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
4-Isopropyltoluene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,4-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
n-Butylbenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2-Dibromo-3-chloropropane (DBCP)	ND		ug/L	1	1.0	EPA 524.2	10/29/2001 rt	WS28776
1,2,4-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Hexachlorobutadiene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Naphthalene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
1,2,3-Trichlorobenzene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Total 1,3-Dichloropropene	ND		ug/L	1	0.50	EPA 524.2	10/29/2001 rt	WS28776
Tert-amyl Methyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001 rt	WS28776
Ethyl tert-Butyl Ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001 rt	WS28776
1,1,1,2-Tetrachloroethane	ND		ug/L	1	0.5	EPA 524.2	10/29/2001 rt	WS28776
Di-isopropyl ether	ND		ug/L	1	3.0	EPA 524.2	10/29/2001 rt	WS28776

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Client: Stetson Engineers, Inc.
Project Name: LPVCWD DHS Permit

Report Date: *Wednesday, November 21, 2001*

CERTIFICATE OF ANALYSIS

Gregory Kostura
Authorized Signature

ELAP # 1132
LACSD # 10143

Flags for Data Qualifiers:

B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
J = Estimated value, detected but below the reporting limit.
H = Estimated value, result over the calibration range
R = Result is suspect, LCS recovery greater than the upper control limit.
L = Result is suspect, LCS recovery lower than the control limit.
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T = Trace detection, detected but below the reporting limit.

Notes:

The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
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Sub = Subcontracted analysis, original report enclosed.

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Established 1931

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REPORT

CLIENT: Weck Laboratories, Inc.
14859 East Clark Ave
Industry, CA 91745
ATTENTION: T. Navarro

DATE: 11/05/01

RECEIVED: 10/25/01

LABORATORY NO. 433112

SAMPLE: WATER/2

INVESTIGATION: GROSS ALPHA ANALYSIS PER SM7110C
GROSS BETA ANALYSIS PER EPA 900.0

RESULTS

Sample I.D.	Alpha pCi/L	Two Sigma Error	Beta pCi/L	Two Sigma Error
1. A107285-001	3.17	+/-0.76	1.57	+/-2.06
2. A107285-002	0.45	+/-0.40	2.39	+/-2.17

Gross Alpha results are based on a Uranium calibration curve.
Gross Beta results are based on a Cesium calibration curve.
Analysis Complete:11/03/01

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Rossina Tomova, Project Manager
Radiochemistry Group

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

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Client: Stetson Engineers, Inc.
Project Name: LPVCWD DHS Permit

QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
LCS	ph_lcs	pH		6.84	units	6.86	99.8		99.27	100.7

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28651	A107285-001	pH in water	10/24/2001
WS28651	A107285-002	pH in water	10/24/2001
WS28651	A107286-001	pH in water	10/24/2001
WS28651	A107292-002	pH in water	10/24/2001
WS28651	A107305-001	pH in water	10/24/2001
WS28651	A107306-001	pH in water	10/24/2001
WS28651	A107307-002	pH in water	10/24/2001

Note:

ND = Not Detected
BL = Blank
MS = Matrix Spike
DUP = Duplicate
MSD = Matrix Spike Duplicate
RPD = Relative Percent Deviation
SURR = Surrogate
LCS = Laboratory Control Standard

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QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107285-002MS	218_ms	Chromium, hexavalent (Cr VI)	ND	5.02	ug/L	5	100.4		90	110
A107285-002MSD	218_msd	Chromium, hexavalent (Cr VI)	ND	5.02	ug/L	5	100.4	0	90	110
LCS	218_lcs	Chromium, hexavalent (Cr VI)		2.40	ug/L	2.5	96		90	110
Method Blank	218_bl	Chromium, hexavalent (Cr VI)		ND	ug/L		0			0.5

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28652	A107285-001	Chromium VI by Ion Chromatography	10/24/2001
WS28652	A107285-002	Chromium VI by Ion Chromatography	10/24/2001

Note:

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BL = Blank DUP = Duplicate RPD = Relative Percent Deviation LCS = Laboratory Control Standard

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QC Report Date: *Wednesday, November 21, 2001*
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QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107166-001MS	hg_w_ms	Mercury	ND	0.98	ug/L	1	98		70	130
A107166-001MSD	hg_w_msd	Mercury	ND	0.94	ug/L	1	94	4	70	130
LCS	hg_w_lcs	Mercury		0.96	ug/L	1	96		85	115
Method Blank	hg_w_bl	Mercury		ND	ug/L		0			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28661	A107140-001	Mercury in drinking water	10/25/2001
WS28661	A107141-001	Mercury in drinking water	10/25/2001
WS28661	A107166-001	Mercury in drinking water	10/25/2001
WS28661	A107167-001	Mercury in drinking water	10/25/2001
WS28661	A107210-001	Mercury in drinking water	10/25/2001
WS28661	A107284-001	Mercury in waste water	10/25/2001
WS28661	A107285-001	Mercury in drinking water	10/25/2001
WS28661	A107285-002	Mercury in drinking water	10/25/2001
WS28661	A107309-001	Dissolved Mercury	10/25/2001
WS28661	A107310-001	Dissolved Mercury	10/25/2001

Note:

ND = Not Detected MS = Matrix Spike MSD = Matrix Spike Duplicate SURR = Surrogate
BL = Blank DUP = Duplicate RPD = Relative Percent Deviation LCS = Laboratory Control Standard

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QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107285-001DUP	turbid_dup	Turbidity	0.16	0.15	NTU		6.5			
LCS	turbid_lcs	Turbidity		0.18	NTU	0.2	90		90	110
Method Blank	turbid_bl	Turbidity		ND	NTU		0			0.1

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28668	A107285-001	Turbidity	10/25/2001
WS28668	A107285-002	Turbidity	10/25/2001
WS28668	A107348-001	Turbidity	10/25/2001
WS28668	A107348-002	Turbidity	10/25/2001
WS28668	A107348-003	Turbidity	10/25/2001
WS28668	A107348-004	Turbidity	10/25/2001

Note:

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BL = Blank DUP = Duplicate RPD = Relative Percent Deviation LCS = Laboratory Control Standard

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QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107319-114DUP	odor_dup	Odor	1	1	TON		0			20
A107348-004DUP	odor_dup	Odor	1	1	TON		0			20

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28669	A107285-001	Odor in drinking water	10/25/2001
WS28669	A107285-002	Odor in drinking water	10/25/2001
WS28669	A107319-001	Odor in drinking water	10/25/2001
WS28669	A107319-029	Odor in drinking water	10/25/2001
WS28669	A107319-091	Odor in drinking water	10/25/2001
WS28669	A107319-114	Odor in drinking water	10/25/2001
WS28669	A107348-001	Odor in drinking water	10/25/2001
WS28669	A107348-002	Odor in drinking water	10/25/2001
WS28669	A107348-003	Odor in drinking water	10/25/2001
WS28669	A107348-004	Odor in drinking water	10/25/2001

Note:

ND = Not Detected
BL = Blank
MS = Matrix Spike
DUP = Duplicate
MSD = Matrix Spike Duplicate
RPD = Relative Percent Deviation
SURR = Surrogate
LCS = Laboratory Control Standard

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QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107285-002DUP	color_dup	Color	ND	ND	units		0			
A107348-004DUP	color_dup	Color	7.5	7.5	units		0			
LCS	color	Color		10	Units	10	100			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28670	A107285-001	Color in water	10/25/2001
WS28670	A107285-002	Color in water	10/25/2001
WS28670	A107348-001	Color in water	10/25/2001
WS28670	A107348-002	Color in water	10/25/2001
WS28670	A107348-003	Color in water	10/25/2001
WS28670	A107348-004	Color in water	10/25/2001

Note:

ND = Not Detected
BL = Blank
MS = Matrix Spike
DUP = Duplicate
MSD = Matrix Spike Duplicate
RPD = Relative Percent Deviation
SURR = Surrogate
LCS = Laboratory Control Standard

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QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107285-002MS	300.0_ms	Chloride	150	173	mg/L	20	90.9		66	130
A107285-002MS	300.0_ms	Fluoride	0.41	10.1	mg/L	10	96.7		81	112
A107285-002MS	300.0_ms	Nitrate as NO3	ND	50.7	mg/L	50	101.5		76	113
A107285-002MS	300.0_ms	Nitrate+nitrite as N	ND	18.2	mg/L	17.4	104.5		85	115
A107285-002MS	300.0_ms	Nitrite as N	ND	6.73	mg/L	6.08	110.7		96	124
A107285-002MS	300.0_ms	Sulfate	ND	101	mg/L	100	101		76	131
A107285-002MSD	300.0_msd	Chloride	150	174	mg/L	20	93.4	0	66	130
A107285-002MSD	300.0_msd	Fluoride	0.41	10.6	mg/L	10	101.6	5	81	112
A107285-002MSD	300.0_msd	Nitrate as NO3	ND	51.0	mg/L	50	102	1	76	113
A107285-002MSD	300.0_msd	Nitrate+nitrite as N	ND	18.2	mg/L	17.4	104.9	0	85	115
A107285-002MSD	300.0_msd	Nitrite as N	ND	6.74	mg/L	6.08	110.9	0	96	124
A107285-002MSD	300.0_msd	Sulfate	ND	101	mg/L	100	100.6	0	76	131
A107310-001MS	300.0_ms	Chloride	100		mg/L	20			66	130
	QC Notes:	*Analyte concentration is too high.*								
A107310-001MS	300.0_ms	Fluoride	ND	9.83	mg/L	10	98.3		81	112
A107310-001MS	300.0_ms	Nitrate as N	ND	11.4	mg/L	11.3	100.6		76	113
A107310-001MS	300.0_ms	Sulfate	820	928	mg/L	100	106.9		76	131
A107310-001MSD	300.0_msd	Chloride	100		mg/L	20			66	130
	QC Notes:	*Analyte concentration is too high.*								
A107310-001MSD	300.0_msd	Fluoride	ND	9.66	mg/L	10	96.6	2	81	112
A107310-001MSD	300.0_msd	Nitrate as N	ND	11.3	mg/L	11.3	99.9	1	76	113
A107310-001MSD	300.0_msd	Sulfate	820	929	mg/L	100	107.2	0	76	131
LCS	300.0_lcs	Bromide		2.06	mg/L	2	103		90	110
LCS	300.0_lcs	Chloride		2.10	mg/L	2	105		90	110
LCS	300.0_lcs	Fluoride		0.97	mg/L	1	97		90	110
LCS	300.0_lcs	Nitrate as NO3		5.10	mg/L	5	102		90	110
LCS	300.0_lcs	Nitrite as NO2		2.04	mg/L	2	102		90	110
LCS	300.0_lcs	o-Phosphate as PO4		10.6	mg/L	10	105.6		90	110
LCS	300.0_lcs	Sulfate		10.1	mg/L	10	101		90	110
Method Blank	300.0_bl	Bromide		ND	mg/L		0			0.2
Method Blank	300.0_bl	Chloride		ND	mg/L		0			0.2
Method Blank	300.0_bl	Fluoride		ND	mg/L		0			0.05
Method Blank	300.0_bl	Nitrate as NO3		ND	mg/L		0			0.2
Method Blank	300.0_bl	Nitrite as NO2		ND	mg/L		0			0.2
Method Blank	300.0_bl	o-Phosphate as PO4		ND	mg/L		0			0.5
Method Blank	300.0_bl	Sulfate		ND	mg/L		0			0.5

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28680	A107281-001	Anions in water by EPA 300	10/24/2001
WS28680	A107281-002	Anions in water by EPA 300	10/24/2001
WS28680	A107282-001	Anions in water by EPA 300	10/24/2001
WS28680	A107282-002	Anions in water by EPA 300	10/24/2001
WS28680	A107282-003	Anions in water by EPA 300	10/24/2001
WS28680	A107282-004	Anions in water by EPA 300	10/24/2001
WS28680	A107284-001	Anions in water by EPA 300	10/24/2001
WS28680	A107285-001	Anions in water by EPA 300	10/24/2001
WS28680	A107285-002	Anions in water by EPA 300	10/24/2001
WS28680	A107294-009	Anions in water by EPA 300	10/24/2001
WS28680	A107307-001	Anions in water by EPA 300	10/24/2001
WS28680	A107307-002	Anions in water by EPA 300	10/24/2001
WS28680	A107309-001	Anions in water by EPA 300	10/24/2001
WS28680	A107310-001	Anions in water by EPA 300	10/24/2001

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107319-093MS	mbas_ms	Surfactants	ND	0.2	mg/L	0.2	100.1		80	122
A107319-093MSD	mbas_msd	Surfactants	ND	0.2	mg/L	0.2	102.5	2	80	122
LCS	mbas_lcs	Surfactants		0.20	mg/L	0.2	98.8		83	116
Method Blank	mbas_bl	Surfactants		ND	mg/L		0			0.05

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28702	A107284-001	MBAS, anionic surfactants	10/25/2001
WS28702	A107285-001	MBAS, anionic surfactants	10/25/2001
WS28702	A107285-002	MBAS, anionic surfactants	10/25/2001
WS28702	A107319-003	MBAS, anionic surfactants	10/25/2001
WS28702	A107319-031	MBAS, anionic surfactants	10/25/2001
WS28702	A107319-093	MBAS, anionic surfactants	10/25/2001

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MSD = Matrix Spike Duplicate
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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107246-093MS	504.1_ms	1,2,3-Trichloropropane	ND	1.19	ug/L	1	119		65	135
A107246-093MS	504.1_ms	1,2-Dibromo-3-chloropropane (DBCP)	ND	0.252	ug/L	0.25	100.8		65	135
A107246-093MS	504.1_ms	1,2-Dibromoethane (EDB)	ND	0.256	ug/L	0.25	102.4		65	135
A107246-093MSD	504.1_msd	1,2,3-Trichloropropane	ND	1.19	ug/L	1	119	0	65	135
A107246-093MSD	504.1_msd	1,2-Dibromo-3-chloropropane (DBCP)	ND	0.255	ug/L	0.25	102	1	65	135
A107246-093MSD	504.1_msd	1,2-Dibromoethane (EDB)	ND	0.266	ug/L	0.25	106.4	4	65	135
A107284-001MS	504.1_ms	1,2,3-Trichloropropane	ND	0.993	ug/L	1	99.3		65	135
A107284-001MS	504.1_ms	1,2-Dibromo-3-chloropropane (DBCP)	ND	0.252	ug/L	0.25	100.8		65	135
A107284-001MS	504.1_ms	1,2-Dibromoethane (EDB)	ND	0.186	ug/L	0.25	74.4		65	135
A107284-001MSD	504.1_msd	1,2,3-Trichloropropane	ND	1.02	ug/L	1	102	3	65	135
A107284-001MSD	504.1_msd	1,2-Dibromo-3-chloropropane (DBCP)	ND	0.257	ug/L	0.25	102.8	2	65	135
A107284-001MSD	504.1_msd	1,2-Dibromoethane (EDB)	ND	0.178	ug/L	0.25	71.2	4	65	135
LCS	504.1_lcs	1,2,3-Trichloropropane		0.0950	ug/L	0.08	118.8		70	130
LCS	504.1_lcs	1,2-Dibromo-3-chloropropane (DBCP)		0.0200	ug/L	0.02	100		70	130
LCS	504.1_lcs	1,2-Dibromoethane (EDB)		0.0250	ug/L	0.02	125		70	130
Method Blank	504.1_bl	1,2,3-Trichloropropane		ND	ug/L		0			0.05
Method Blank	504.1_bl	1,2-Dibromo-3-chloropropane (DBCP)		ND	ug/L		0			0.01
Method Blank	504.1_bl	1,2-Dibromoethane (EDB)		ND	ug/L		0			0.02

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28712	A107246-006	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-019	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-031	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-040	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-077	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-083	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-093	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-099	edb/dbcp in drinking water	10/27/2001
WS28712	A107246-110	edb/dbcp in drinking water	10/27/2001
WS28712	A107284-001	edb/dbcp in drinking water	10/27/2001
WS28712	A107285-001	edb/dbcp in drinking water	10/27/2001
WS28712	A107285-002	edb/dbcp in drinking water	10/27/2001
WS28712	A107289-006	edb/dbcp in drinking water	10/27/2001
WS28712	A107319-016	edb/dbcp in drinking water	10/27/2001
WS28712	A107319-044	edb/dbcp in drinking water	10/27/2001
WS28712	A107319-057	edb/dbcp in drinking water	10/27/2001
WS28712	A107319-070	edb/dbcp in drinking water	10/27/2001
WS28712	A107319-078	edb/dbcp in drinking water	10/27/2001
WS28712	A107319-106	edb/dbcp in drinking water	10/27/2001
WS28712	A107319-129	edb/dbcp in drinking water	10/27/2001

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MSD = Matrix Spike Duplicate
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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107291-008MS	200.7	Calcium	31	78	mg/L	50	95.3		70	130
A107291-008MS	200.7	Magnesium	0.40	51	mg/L	50	100.3		70	130
A107291-008MS	200.7	Potassium	2.9	57	mg/L	52	103.3		70	130
A107291-008MS	200.7	Sodium	34	85	mg/L	50	103.4		70	130
A107291-008MSD	200.7	Calcium	31	78	mg/L	50	93.8	1	70	130
A107291-008MSD	200.7	Magnesium	0.40	50	mg/L	50	99.5	1	70	130
A107291-008MSD	200.7	Potassium	2.9	56	mg/L	52	102.9	0	70	130
A107291-008MSD	200.7	Sodium	34	84	mg/L	50	101.7	1	70	130
A107319-033MS	200.7	Boron	250	460	ug/L	200	103		70	130
A107319-033MSD	200.7	Boron	250	470	ug/L	200	107.8	2	70	130
LCS	200.7	Boron		210	ug/L	200	104.7		85	115
LCS	200.7	Calcium		48	mg/L	50	97		85	115
LCS	200.7	Cerium		180	ug/L	200	91.5		85	115
LCS	200.7	Iron		220	ug/L	200	110.3		85	115
LCS	200.7	Lithium		2200	ug/l	2000	108.1		85	115
LCS	200.7	Magnesium		51	mg/L	50	101.4		85	115
LCS	200.7	Potassium		54	mg/L	52	104.8		85	115
LCS	200.7	Silicon		9.2	mg/L	10	92.3		85	115
LCS	200.7	Sodium		54	mg/L	50	108.7		85	115
Method Blank	200.7	Boron		ND	ug/L		0			
Method Blank	200.7	Calcium		ND	mg/L		0			
Method Blank	200.7	Cerium		ND	ug/L		0			
Method Blank	200.7	Iron		ND	ug/L		0			
Method Blank	200.7	Lithium		ND	ug/L		0			
Method Blank	200.7	Magnesium		ND	mg/L		0			
Method Blank	200.7	Potassium		ND	mg/L		0			
Method Blank	200.7	Silicon		ND	mg/L		0			
Method Blank	200.7	Sodium		ND	mg/L		0			

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28731	A107281-002	Trace Metals, ICP	10/26/2001
WS28731	A107285-001	Trace Metals, ICP	10/26/2001
WS28731	A107285-002	Trace Metals, ICP	10/26/2001
WS28731	A107286-001	Trace Metals, ICP	10/26/2001
WS28731	A107291-007	Trace Metals, ICP	10/26/2001
WS28731	A107291-008	Trace Metals, ICP	10/26/2001
WS28731	A107303-001	Trace Metals, ICP	10/26/2001
WS28731	A107303-002	Trace Metals, ICP	10/26/2001
WS28731	A107304-001	Trace Metals, ICP	10/26/2001
WS28731	A107319-005	Trace Metals, ICP	10/26/2001
WS28731	A107319-033	Trace Metals, ICP	10/26/2001
WS28731	A107319-095	Trace Metals, ICP	10/26/2001
WS28731	A107319-118	Trace Metals, ICP	10/26/2001
WS28731	A107334-001	Trace Metals, ICP	10/26/2001

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A107295-005DUP	tds_dup	Total dissolved solids	310	306	mg/L		2.3			10
LCS	tds_lcs	Total dissolved solids		822	mg/L	824	99.8		93	105
Method Blank	tds_bl	Total dissolved solids		ND	mg/L		0			5

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28752	A107198-001	Total dissolved solids	10/25/2001
WS28752	A107198-002	Total dissolved solids	10/25/2001
WS28752	A107198-003	Total dissolved solids	10/25/2001
WS28752	A107198-004	Total dissolved solids	10/25/2001
WS28752	A107198-005	Total dissolved solids	10/25/2001
WS28752	A107248-001	Total dissolved solids	10/25/2001
WS28752	A107248-002	Total dissolved solids	10/25/2001
WS28752	A107248-003	Total dissolved solids	10/25/2001
WS28752	A107248-004	Total dissolved solids	10/25/2001
WS28752	A107254-001	Total dissolved solids	10/25/2001
WS28752	A107285-001	Total dissolved solids	10/25/2001
WS28752	A107285-002	Total dissolved solids	10/25/2001
WS28752	A107292-001	Total dissolved solids	10/25/2001
WS28752	A107295-001	Total dissolved solids	10/25/2001
WS28752	A107295-002	Total dissolved solids	10/25/2001
WS28752	A107295-003	Total dissolved solids	10/25/2001
WS28752	A107295-004	Total dissolved solids	10/25/2001
WS28752	A107295-005	Total dissolved solids	10/25/2001

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A107285-001MS	200.8	Aluminum	ND	47	ug/L	50	77.5		70	130
A107285-001MS	200.8	Antimony	ND	51	ug/L	50	101.1		70	130
A107285-001MS	200.8	Arsenic	ND	52	ug/L	50	100.5		70	130
A107285-001MS	200.8	Barium	90	140	ug/L	50	96.8		70	130
A107285-001MS	200.8	Beryllium	ND	48	ug/L	50	96.6		70	130
A107285-001MS	200.8	Cadmium	ND	50	ug/L	50	100.6		70	130
A107285-001MS	200.8	Chromium, total	ND	46	ug/L	50	84.2		70	130
A107285-001MS	200.8	Cobalt	0.34	43	ug/L	50	84.7		70	130
A107285-001MS	200.8	Copper	3.6	45	ug/L	50	82.8		70	130
A107285-001MS	200.8	Lead	ND	51	ug/L	50	101.1		70	130
A107285-001MS	200.8	Manganese	ND	60	ug/L	50	120.1		70	130
A107285-001MS	200.8	Molybdenum	3.7	52	ug/L	50	96.6		70	130
A107285-001MS	200.8	Nickel	ND	42	ug/L	50	82.4		70	130
A107285-001MS	200.8	Selenium	ND	51	ug/L	50	98.2		70	130
A107285-001MS	200.8	Silver	ND	48	ug/L	50	96.5		70	130
A107285-001MS	200.8	Strontium	260		ug/L	50			70	130
	QC Notes:	*Analyte concentration is too high*								
A107285-001MS	200.8	Thallium	ND	52	ug/L	50	102.4		70	130
A107285-001MS	200.8	Thorium	ND	53	ug/L	50	106.3		70	130
A107285-001MS	200.8	Tin	ND	51	ug/L	50	100.2		70	130
A107285-001MS	200.8	Titanium	ND	45	ug/L	50	87.7		70	130
A107285-001MS	200.8	Tungsten	ND	54	ug/L	50	105.6		70	130
A107285-001MS	200.8	Uranium	ND	60	ug/L	50	112.4		70	130
A107285-001MS	200.8	Vanadium	ND	47	ug/L	50	85.1		70	130
A107285-001MS	200.8	Zinc	ND	57	ug/L	50	96.5		70	130
A107285-001MS	200.8	Zirconium	ND	49	ug/L	50	91.1		70	130
A107285-001MSD	200.8	Aluminum	ND	46	ug/L	50	76.9	1	70	130
A107285-001MSD	200.8	Antimony	ND	52	ug/L	50	104.1	3	70	130
A107285-001MSD	200.8	Arsenic	ND	52	ug/L	50	100.1	0	70	130
A107285-001MSD	200.8	Barium	90	140	ug/L	50	98	0	70	130
A107285-001MSD	200.8	Beryllium	ND	50	ug/L	50	99.6	3	70	130
A107285-001MSD	200.8	Cadmium	ND	51	ug/L	50	102	1	70	130
A107285-001MSD	200.8	Chromium, total	ND	46	ug/L	50	85	1	70	130
A107285-001MSD	200.8	Cobalt	0.34	43	ug/L	50	85.3	1	70	130
A107285-001MSD	200.8	Copper	3.6	46	ug/L	50	84	1	70	130
A107285-001MSD	200.8	Lead	ND	51	ug/L	50	101.3	0	70	130
A107285-001MSD	200.8	Manganese	ND	44	ug/L	50	86.5	32	70	130

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A107285-001MSD	200.8	Molybdenum	3.7	53	ug/L	50	99	2	70	130
A107285-001MSD	200.8	Nickel	ND	42	ug/L	50	82.8	0	70	130
A107285-001MSD	200.8	Selenium	ND	50	ug/L	50	96.4	2	70	130
A107285-001MSD	200.8	Silver	ND	49	ug/L	50	97.9	1	70	130
A107285-001MSD	200.8	Strontium	260		ug/L	50			70	130
	QC Notes:	*Analyte concentration is too high*								
A107285-001MSD	200.8	Thallium	ND	52	ug/L	50	102.2	0	70	130
A107285-001MSD	200.8	Thorium	ND	54	ug/L	50	107.1	1	70	130
A107285-001MSD	200.8	Tin	ND	51	ug/L	50	100.2	0	70	130
A107285-001MSD	200.8	Titanium	ND	45	ug/L	50	88.7	1	70	130
A107285-001MSD	200.8	Tungsten	ND	54	ug/L	50	106.4	1	70	130
A107285-001MSD	200.8	Uranium	ND	61	ug/L	50	113.4	1	70	130
A107285-001MSD	200.8	Vanadium	ND	47	ug/L	50	86.1	1	70	130
A107285-001MSD	200.8	Zinc	ND	57	ug/L	50	95.9	1	70	130
A107285-001MSD	200.8	Zirconium	ND	50	ug/L	50	93.9	3	70	130
LCS	200.8	Aluminum		50	ug/L	50	99		85	115
LCS	200.8	Antimony		50	ug/L	50	99.2		85	115
LCS	200.8	Arsenic		51	ug/L	50	102.4		85	115
LCS	200.8	Barium		51	ug/L	50	101.8		85	115
LCS	200.8	Beryllium		53	ug/L	50	106.4		85	115
LCS	200.8	Cadmium		51	ug/L	50	102.6		85	115
LCS	200.8	Chromium, total		49	ug/L	50	97.4		85	115
LCS	200.8	Cobalt		50	ug/L	50	99.4		85	115
LCS	200.8	Copper		50	ug/L	50	99.4		85	115
LCS	200.8	Lead		51	ug/L	50	102.8		85	115
LCS	200.8	Manganese		49	ug/L	50	98		85	115
LCS	200.8	Molybdenum		50	ug/L	50	100.8		85	115
LCS	200.8	Nickel		50	ug/L	50	99.6		85	115
LCS	200.8	Selenium		52	ug/L	50	104.6		85	115
LCS	200.8	Silver		52	ug/L	50	103.8		85	115
LCS	200.8	Strontium		50	ug/L	50	100.4		85	115
LCS	200.8	Thallium		52	ug/L	50	103.8		85	115
LCS	200.8	Thorium		45	ug/L	50	89.8		85	115
LCS	200.8	Tin		49	ug/L	50	98.2		85	115
LCS	200.8	Titanium		48	ug/L	50	95.8		85	115
LCS	200.8	Tungsten		51	ug/L	50	102.4		85	115
LCS	200.8	Uranium		56	ug/L	50	111.2		85	115

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QC Report Date: *Wednesday, November 21, 2001*
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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
LCS	200.8	Vanadium		49	ug/L	50	97.8		85	115
LCS	200.8	Zinc		53	ug/L	50	105.2		85	115
LCS	200.8	Zirconium		50	ug/L	50	99.4		85	115
Method Blank	200.8	Aluminum		ND	ug/L		0			
Method Blank	200.8	Antimony		ND	ug/L		0			
Method Blank	200.8	Arsenic		ND	ug/L		0			
Method Blank	200.8	Barium		ND	ug/L		0			
Method Blank	200.8	Beryllium		ND	ug/L		0			
Method Blank	200.8	Cadmium		ND	ug/L		0			
Method Blank	200.8	Chromium, total		ND	ug/L		0			
Method Blank	200.8	Cobalt		ND	ug/L		0			
Method Blank	200.8	Copper		ND	ug/L		0			
Method Blank	200.8	Lead		ND	ug/L		0			
Method Blank	200.8	Manganese		ND	ug/L		0			
Method Blank	200.8	Molybdenum		ND	ug/L		0			
Method Blank	200.8	Nickel		ND	ug/L		0			
Method Blank	200.8	Selenium		ND	ug/L		0			
Method Blank	200.8	Silver		ND	ug/L		0			
Method Blank	200.8	Strontium		ND	ug/L		0			
Method Blank	200.8	Thallium		ND	ug/L		0			
Method Blank	200.8	Thorium		ND	ug/L		0			
Method Blank	200.8	Tin		ND	ug/L		0			
Method Blank	200.8	Titanium		ND	ug/L		0			
Method Blank	200.8	Tungsten		ND	ug/L		0			
Method Blank	200.8	Uranium		ND	ug/L		0			
Method Blank	200.8	Vanadium		ND	ug/L		0			
Method Blank	200.8	Zinc		ND	ug/L		0			
Method Blank	200.8	Zirconium		ND	ug/L		0			
QCS	200.8	Antimony		0.36	ug/L	0.5	72			
QCS	200.8	Arsenic		1.9	ug/L	2	93			
QCS	200.8	Beryllium		0.44	ug/L	0.5	88			
QCS	200.8	Cadmium		0.23	ug/L	0.25	92			
QCS	200.8	Chromium, total		0.46	ug/L	0.5	92			
QCS	200.8	Copper		0.56	ug/L	0.5	112			
QCS	200.8	Lead		0.58	ug/L	0.5	116			
QCS	200.8	Nickel		0.95	ug/L	1	95			
QCS	200.8	Selenium		1.8	ug/L	2	92.5			

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QCS	200.8	Silver		0.24	ug/L	0.25	96			
QCS	200.8	Thallium		0.98	ug/L	1	98			
QCS	200.8	Zinc		1.1	ug/L	1	112			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28771	A107285-001	Trace Metals, ICP-MS	10/29/2001
WS28771	A107285-002	Trace Metals, ICP-MS	10/29/2001
WS28771	A107380-001	Trace Metals, ICP-MS - EPA 200.8	10/29/2001
WS28771	A107380-002	Trace Metals, ICP-MS - EPA 200.8	10/29/2001

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A107237-001SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.98	ug/L	2	99		70	130
A107237-001SURR	524.2_surr	4-Bromofluorobenzene		2.03	ug/L	2	101.5		66	127
A107237-002SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.83	ug/L	2	91.5		70	130
A107237-002SURR	524.2_surr	4-Bromofluorobenzene		1.89	ug/L	2	94.5		66	127
A107280-001SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.92	ug/L	2	96		70	130
A107280-001SURR	524.2_surr	4-Bromofluorobenzene		1.98	ug/L	2	99		66	127
A107280-002SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.91	ug/L	2	95.5		70	130
A107280-002SURR	524.2_surr	4-Bromofluorobenzene		2.04	ug/L	2	102		66	127
A107285-001SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.92	ug/L	2	96		70	130
A107285-001SURR	524.2_surr	4-Bromofluorobenzene		2.05	ug/L	2	102.5		66	127
A107285-002SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.83	ug/L	2	91.5		70	130
A107285-002SURR	524.2_surr	4-Bromofluorobenzene		2.02	ug/L	2	101		66	127
A107285-003SURR	524.2_surr	1,2-Dichlorobenzene-d4		2.13	ug/L	2	106.5		70	130
A107285-003SURR	524.2_surr	4-Bromofluorobenzene		2.17	ug/L	2	108.5		66	127
A107294-001SURR	524.2_surr	1,2-Dichlorobenzene-d4		2.17	ug/L	2	108.5		70	130
A107294-001SURR	524.2_surr	4-Bromofluorobenzene		2.14	ug/L	2	107		66	127
A107294-002SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.90	ug/L	2	95		70	130
A107294-002SURR	524.2_surr	4-Bromofluorobenzene		1.91	ug/L	2	95.5		66	127
A107294-003SURR	524.2_surr	1,2-Dichlorobenzene-d4		2.02	ug/L	2	101		70	130
A107294-003SURR	524.2_surr	4-Bromofluorobenzene		2.06	ug/L	2	103		66	127
A107294-004SURR	524.2_surr	1,2-Dichlorobenzene-d4		2.15	ug/L	2	107.5		70	130
A107294-004SURR	524.2_surr	4-Bromofluorobenzene		2.27	ug/L	2	113.5		66	127
A107294-005SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.95	ug/L	2	97.5		70	130
A107294-005SURR	524.2_surr	4-Bromofluorobenzene		2.00	ug/L	2	100		66	127
A107294-006SURR	524.2_surr	1,2-Dichlorobenzene-d4		2.04	ug/L	2	102		70	130
A107294-006SURR	524.2_surr	4-Bromofluorobenzene		2.08	ug/L	2	104		66	127
A107294-007SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.84	ug/L	2	92		70	130
A107294-007SURR	524.2_surr	4-Bromofluorobenzene		1.93	ug/L	2	96.5		66	127
A107294-008SURR	524.2_surr	1,2-Dichlorobenzene-d4		2.14	ug/L	2	107		70	130
A107294-008SURR	524.2_surr	4-Bromofluorobenzene		2.13	ug/L	2	106.5		66	127
A107294-009SURR	524.2_surr	1,2-Dichlorobenzene-d4		1.85	ug/L	2	92.5		70	130
A107294-009SURR	524.2_surr	4-Bromofluorobenzene		1.95	ug/L	2	97.5		66	127
A107294-010SURR	524.2_surr	1,2-Dichlorobenzene-d4		2.00	ug/L	2	100		70	130
A107294-010SURR	524.2_surr	4-Bromofluorobenzene		2.13	ug/L	2	106.5		66	127
LCS	524.2_lcs	1,1,1-Trichloroethane		8.21	ug/L	8	102.6		70	130
LCS	524.2_lcs	1,1,2,2-Tetrachloroethane		7.53	ug/L	8	94.1		70	130
LCS	524.2_lcs	1,1,2-Trichloroethane		7.00	ug/L	8	87.5		70	130

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LCS	524.2_lcs	1,1-Dichloroethane		7.87	ug/L	8	98.4		70	130
LCS	524.2_lcs	1,1-Dichloroethene		6.92	ug/L	8	86.5		70	130
LCS	524.2_lcs	1,2,4-Trichlorobenzene		8.39	ug/L	8	104.9		70	130
LCS	524.2_lcs	1,2-Dichloroethane		8.32	ug/L	8	104		70	130
LCS	524.2_lcs	1,3,5-Trimethylbenzene		8.53	ug/L	8	106.6		70	130
LCS	524.2_lcs	1,4-Dichlorobenzene		8.16	ug/L	8	102		70	130
LCS	524.2_lcs	2-chlorotoluene		8.42	ug/L	8	105.3		70	130
LCS	524.2_lcs	Benzene		7.10	ug/L	8	88.8		70	130
LCS	524.2_lcs	Bromodichloromethane		8.11	ug/L	8	101.4		70	130
LCS	524.2_lcs	Bromoform		8.23	ug/L	8	102.9		70	130
LCS	524.2_lcs	Carbon Tetrachloride		8.15	ug/L	8	101.9		70	130
LCS	524.2_lcs	Chlorobenzene		7.70	ug/L	8	96.3		70	130
LCS	524.2_lcs	Chloroform		7.75	ug/L	8	96.9		70	130
LCS	524.2_lcs	Chloromethane		7.15	ug/L	8	89.4		70	130
LCS	524.2_lcs	cis-1,2-Dichloroethene		7.76	ug/L	8	97		70	130
LCS	524.2_lcs	Dibromochloromethane		7.65	ug/L	8	95.6		70	130
LCS	524.2_lcs	Dichlorodifluoromethane		9.96	ug/L	8	124.5		70	130
LCS	524.2_lcs	Ethyl benzene		7.98	ug/L	8	99.8		70	130
LCS	524.2_lcs	Ethyl tert-Butyl Ether		6.52	ug/L	8	81.5		70	130
LCS	524.2_lcs	isopropylbenzene		8.53	ug/L	8	106.6		70	130
LCS	524.2_lcs	Methyl tert-Butyl Ether (MTBE)		007	ug/L	8	83		70	130
LCS	524.2_lcs	Methylene chloride (Dichloromethane)		5.93	ug/L	8	74.1		70	130
LCS	524.2_lcs	Naphthalene		8.60	ug/L	8	107.5		70	130
LCS	524.2_lcs	o-Xylene		7.81	ug/L	8	97.6		70	130
LCS	524.2_lcs	tert-Amyl Methyl Ether		6.35	ug/L	8	79.4		70	130
LCS	524.2_lcs	Tetrachloroethene (PCE)		7.06	ug/L	8	88.3		70	130
LCS	524.2_lcs	Toluene		7.71	ug/L	8	96.4		70	130
LCS	524.2_lcs	trans-1,2-Dichloroethene		7.22	ug/L	8	90.3		70	130
LCS	524.2_lcs	Trichloroethene (TCE)		8.13	ug/L	8	101.6		70	130
LCS	524.2_lcs	Trichlorofluoromethane (Freon 11)		7.62	ug/L	8	95.3		70	130
LCS	524.2_lcs	Vinyl Chloride		7.28	ug/L	8	91		70	130
Method Blank	524.2_bl	1,1,1,2-Tetrachloroethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,1,1-Trichloroethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,1,2,2-Tetrachloroethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,1,2-Trichloroethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,1-Dichloroethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,1-Dichloroethene		ND	ug/L		0			0.5

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
Method Blank	524.2_bl	1,1-Dichloropropene		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2,3-Trichlorobenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2,3-Trichloropropane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2,4-Trichlorobenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2,4-Trimethylbenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2-Dibromo-3-chloropropane (DBCP)		ND	ug/L		0			1
Method Blank	524.2_bl	1,2-Dibromoethane (EDB)		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2-Dichlorobenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2-Dichloroethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,2-Dichloropropane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,3,5-Trimethylbenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,3-Dichlorobenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,3-Dichloropropane		ND	ug/L		0			0.5
Method Blank	524.2_bl	1,4-Dichlorobenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	2,2-Dichloropropane		ND	ug/L		0			0.5
Method Blank	524.2_bl	2-Butanone (Methyl ethyl ketone)		ND	ug/L		0			5
Method Blank	524.2_bl	2-chloroethylvinyl Ether		ND	ug/L		0			1
Method Blank	524.2_bl	2-chlorotoluene		ND	ug/L		0			0.5
Method Blank	524.2_bl	4-Chlorotoluene		ND	ug/L		0			0.5
Method Blank	524.2_bl	4-isopropyltoluene		ND	ug/L		0			0.5
Method Blank	524.2_bl	4-Methyl-2-pentanone (MiBK)		ND	ug/L		0			5
Method Blank	524.2_bl	Benzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Bromobenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Bromochloromethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	Bromodichloromethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	Bromoform		ND	ug/L		0			0.5
Method Blank	524.2_bl	Bromomethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	Carbon Tetrachloride		ND	ug/L		0			0.5
Method Blank	524.2_bl	Chlorobenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Chloroethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	Chloroform		ND	ug/L		0			0.5
Method Blank	524.2_bl	Chloromethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	cis-1,2-Dichloroethene		ND	ug/L		0			0.5
Method Blank	524.2_bl	cis-1,3-Dichloropropene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Di-isopropyl ether		ND	ug/L		0			3
Method Blank	524.2_bl	Dibromochloromethane		ND	ug/L		0			0.5
Method Blank	524.2_bl	Dibromomethane		ND	ug/L		0			0.5

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Method Blank	524.2_bl	Dichlorodifluoromethane		ND	ug/L		0			1
Method Blank	524.2_bl	Ethyl benzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Ethyl tert-Butyl Ether		ND	ug/L		0			3
Method Blank	524.2_bl	Hexachlorobutadiene		ND	ug/L		0			0.5
Method Blank	524.2_bl	isopropylbenzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	m/p-Xylenes		ND	ug/L		0			0.5
Method Blank	524.2_bl	Methyl tert-Butyl Ether (MTBE)		ND	ug/L		0			3
Method Blank	524.2_bl	Methylene chloride (Dichloromethane)		ND	ug/L		0			0.5
Method Blank	524.2_bl	n-Butyl benzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	n-Propyl benzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Naphthalene		ND	ug/L		0			0.5
Method Blank	524.2_bl	o-Xylene		ND	ug/L		0			0.5
Method Blank	524.2_bl	sec-Butyl benzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Styrene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Tert-amyl Methyl Ether		ND	ug/L		0			3
Method Blank	524.2_bl	tert-Butyl benzene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Tetrachloroethene (PCE)		ND	ug/L		0			0.5
Method Blank	524.2_bl	Toluene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Total 1,3-Dichloropropene		ND	ug/L		0			0.5
Method Blank	524.2_bl	trans-1,2-Dichloroethene		ND	ug/L		0			0.5
Method Blank	524.2_bl	trans-1,3-Dichloropropene		ND	ug/L		0			0.5
Method Blank	524.2_bl	Trichloroethene (TCE)		ND	ug/L		0			0.5
Method Blank	524.2_bl	Trichlorofluoromethane (Freon 11)		ND	ug/L		0			5
Method Blank	524.2_bl	Trichlorotrifluoroethane (Freon 113)		ND	ug/L		0			10
Method Blank	524.2_bl	Vinyl Chloride		ND	ug/L		0			0.5

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QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28776	A107237-001	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107237-002	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107280-001	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107280-002	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107285-001	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107285-002	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107285-003	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-001	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-002	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-003	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-004	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-005	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-006	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-007	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-008	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-009	Volatile Organics by EPA 524.2	10/29/2001
WS28776	A107294-010	Volatile Organics by EPA 524.2	10/29/2001

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107319-002MS	cn_w_ms	Cyanide, total	ND	0.16	mg/L	0.2	80.8		78	123
A107319-002MSD	cn_w_msd	Cyanide, total	ND	0.16	mg/L	0.2	80	1	78	123
LCS	cn_w_lcs	Cyanide, total		0.01	mg/L	0.01	90		78	123
Method Blank	cn_w_bl	Cyanide, total		ND	mg/l		0			0.02

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28805	A107189-002	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107191-002	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107251-002	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107252-002	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107270-002	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107284-001	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107285-001	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107285-002	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107319-002	Total Cyanide Colorimetric after distill	10/26/2001
WS28805	A107319-030	Total Cyanide Colorimetric after distill	10/26/2001

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107402-001DUP	alk_dup	Alkalinity	540	549	mg/L		0.7			12
LCS	alk_lcs	Alkalinity		31.2	mg/L	28.3	110.2		94	111
Method Blank	alk_bl	Alkalinity		ND	mg/L		0			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28818	A107285-001	Alkalinity by titration	10/31/2001
WS28818	A107285-002	Alkalinity by titration	10/31/2001
WS28818	A107286-001	Alkalinity by titration	10/31/2001
WS28818	A107309-001	Alkalinity by titration	10/31/2001
WS28818	A107310-001	Alkalinity by titration	10/31/2001
WS28818	A107376-001	Alkalinity by titration	10/31/2001
WS28818	A107377-001	Alkalinity by titration	10/31/2001
WS28818	A107401-001	Alkalinity by titration	10/31/2001
WS28818	A107402-001	Alkalinity by titration	10/31/2001

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107402-001DUP	hco3	Bicarbonate	660	670	mg/L		0.6			
LCS	hco3	Bicarbonate		38	mg/L	34.5	108.7			
Method Blank	hco3	Bicarbonate		ND	mg/L		0			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28820	A107285-001	Bicarbonate (HCO3)	10/31/2001
WS28820	A107285-002	Bicarbonate (HCO3)	10/31/2001
WS28820	A107309-001	Bicarbonate (HCO3)	10/31/2001
WS28820	A107310-001	Bicarbonate (HCO3)	10/31/2001
WS28820	A107376-001	Bicarbonate (HCO3)	10/31/2001
WS28820	A107377-001	Bicarbonate (HCO3)	10/31/2001
WS28820	A107401-001	Bicarbonate (HCO3)	10/31/2001
WS28820	A107402-001	Bicarbonate (HCO3)	10/31/2001

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107467-002DUP	ec_dup	Conductivity	1400	1440	umho/c		0			5
LCS	ec_lcs	Conductivity		500	umho/c	500	100		96	102
Method Blank	ec_bl	Conductivity		ND	umho/c		0			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28855	A107285-001	Conductivity	
WS28855	A107285-002	Conductivity	
WS28855	A107363-001	Conductivity	
WS28855	A107363-002	Conductivity	
WS28855	A107363-003	Conductivity	
WS28855	A107363-004	Conductivity	
WS28855	A107363-005	Conductivity	
WS28855	A107363-006	Conductivity	
WS28855	A107363-007	Conductivity	
WS28855	A107363-008	Conductivity	
WS28855	A107363-009	Conductivity	
WS28855	A107363-010	Conductivity	
WS28855	A107363-011	Conductivity	
WS28855	A107363-012	Conductivity	
WS28855	A107363-013	Conductivity	
WS28855	A107438-001	Conductivity	
WS28855	A107463-001	Conductivity	
WS28855	A107463-002	Conductivity	
WS28855	A107464-001	Conductivity	
WS28855	A107467-002	Conductivity	

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107291-004MS	ndma_ms	N-Nitrosodimethylamine	53		ng/L	10			70	130
	QC Notes:	*not valid due to high sample background*								
A107291-004MSD	ndma_msd	N-Nitrosodimethylamine	53		ng/L	10			70	130
	QC Notes:	*not valid due to high sample background*								
LCS	ndma_lcs	N-Nitrosodimethylamine		7.92	ng/L	10	79.2		70	130
Method Blank	ndma_bl	N-Nitroso-dimethylamine		ND	ng/L		0			0.5

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28867	A107276-001	N-Nitrosodimethylamine	10/31/2001
WS28867	A107285-001	N-Nitrosodimethylamine	10/31/2001
WS28867	A107291-001	N-Nitrosodimethylamine	10/31/2001
WS28867	A107291-002	N-Nitrosodimethylamine	10/31/2001
WS28867	A107291-003	N-Nitrosodimethylamine	10/31/2001
WS28867	A107291-004	N-Nitrosodimethylamine	10/31/2001
WS28867	A107291-005	N-Nitrosodimethylamine	10/31/2001
WS28867	A107291-006	N-Nitrosodimethylamine	10/31/2001
WS28867	A107386-001	N-Nitrosodimethylamine	10/31/2001
WS28867	A107386-003	N-Nitrosodimethylamine	10/31/2001
WS28867	A107386-009	N-Nitrosodimethylamine	11/2/2001
WS28867	A107386-010	N-Nitrosodimethylamine	10/31/2001

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107289-001MS	531.1_ms	3-Hydroxycarbofuran	ND	10.4	ug/L	10	104.2		65	135
A107289-001MS	531.1_ms	Aldicarb (TEMIK)	ND	9.96	ug/L	10	99.6		65	135
A107289-001MS	531.1_ms	Aldicarb Sulfone	ND	10.8	ug/L	10	107.6		65	135
A107289-001MS	531.1_ms	Aldicarb Sulfoxide	ND	9.89	ug/L	10	98.9		65	135
A107289-001MS	531.1_ms	Carbaryl	ND	10.1	ug/L	10	100.6		65	135
A107289-001MS	531.1_ms	Carbofuran (FURADAN)	ND	8.71	ug/L	10	87.1		65	135
A107289-001MS	531.1_ms	Methiocarb	ND	11.5	ug/L	10	115		65	135
A107289-001MS	531.1_ms	Methomyl	ND	9.99	ug/L	10	99.9		65	135
A107289-001MS	531.1_ms	Oxamyl (VYDATE)	ND	10.4	ug/L	10	104		65	135
A107289-001MS	531.1_ms	Propoxur	ND	10.1	ug/L	10	100.8		65	135
A107289-001MSD	531.1_msd	3-Hydroxycarbofuran	ND	10.0	ug/L	10	100.2	4	65	135
A107289-001MSD	531.1_msd	Aldicarb (TEMIK)	ND	10.7	ug/L	10	107.3	7	65	135
A107289-001MSD	531.1_msd	Aldicarb Sulfone	ND	10.7	ug/L	10	106.6	1	65	135
A107289-001MSD	531.1_msd	Aldicarb Sulfoxide	ND	11.1	ug/L	10	111	12	65	135
A107289-001MSD	531.1_msd	Carbaryl	ND	11.0	ug/L	10	109.7	9	65	135
A107289-001MSD	531.1_msd	Carbofuran (FURADAN)	ND	10.0	ug/L	10	100.2	14	65	135
A107289-001MSD	531.1_msd	Methiocarb	ND	10.3	ug/L	10	102.6	11	65	135
A107289-001MSD	531.1_msd	Methomyl	ND	10.2	ug/L	10	101.5	2	65	135
A107289-001MSD	531.1_msd	Oxamyl (VYDATE)	ND	10.8	ug/L	10	107.6	3	65	135
A107289-001MSD	531.1_msd	Propoxur	ND	10.7	ug/L	10	107.4	6	65	135
LCS	531.1_lcs	3-Hydroxycarbofuran		11.9	ug/L	10	119		80	120
LCS	531.1_lcs	Aldicarb (TEMIK)		10.4	ug/L	10	104.1		80	120
LCS	531.1_lcs	Aldicarb Sulfone		10.6	ug/L	10	106.4		80	120
LCS	531.1_lcs	Aldicarb Sulfoxide		11.2	ug/L	10	112		80	120
LCS	531.1_lcs	Carbaryl		10.7	ug/L	10	107.4		80	120
LCS	531.1_lcs	Carbofuran (FURADAN)		10.6	ug/L	10	105.6		80	120
LCS	531.1_lcs	Methiocarb		11.4	ug/L	10	114		80	120
LCS	531.1_lcs	Methomyl		12.0	ug/L	10	120		80	120
LCS	531.1_lcs	Oxamyl (VYDATE)		9.62	ug/L	10	96.2		80	120
LCS	531.1_lcs	Propoxur		10.7	ug/L	10	106.7		80	120
Method Blank	531.1_bl	3-Hydroxycarbofuran		ND	ug/L		0			2
Method Blank	531.1_bl	Aldicarb (TEMIK)		ND	ug/L		0			2
Method Blank	531.1_bl	Aldicarb Sulfone		ND	ug/L		0			2
Method Blank	531.1_bl	Aldicarb Sulfoxide		ND	ug/L		0			2
Method Blank	531.1_bl	Carbaryl		ND	ug/L		0			2
Method Blank	531.1_bl	Carbofuran (FURADAN)		ND	ug/L		0			5
Method Blank	531.1_bl	Methiocarb		ND	ug/L		0			3

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Method Blank	531.1_bl	Methomyl		ND	ug/L		0			2
Method Blank	531.1_bl	Oxamyl (VYDATE)		ND	ug/L		0			2
Method Blank	531.1_bl	Propoxur		ND	ug/L		0			5

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28901	A107246-058	N-Methyl Carbamate Pesticides	10/29/2001
WS28901	A107246-063	N-Methyl Carbamate Pesticides	10/29/2001
WS28901	A107246-068	N-Methyl Carbamate Pesticides	10/29/2001
WS28901	A107246-105	N-Methyl Carbamate Pesticides	10/29/2001
WS28901	A107285-001	N-Methyl Carbamate Pesticides	10/29/2001
WS28901	A107285-002	N-Methyl Carbamate Pesticides	10/29/2001
WS28901	A107289-001	N-Methyl Carbamate Pesticides	10/29/2001

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A107400-002MS	8270_dio_ms	1,4-Dioxane	1.2	24.3	ug/L	20	115.3		53	136
A107400-002MSD	8270_dio_msd	1,4-Dioxane	1.2	24.0	ug/L	20	113.9	1	53	136
LCS	8270dioxane	1,4-Dioxane		11	ug/L	10	109.6			
Method Blank	8270dioxane	1,4-Dioxane		ND	ug/L		0			

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS28979	A107285-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107285-002	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107309-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107310-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107315-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107315-002	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107315-003	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107356-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107356-002	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107357-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107358-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107376-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107377-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107386-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107386-003	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107400-001	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001
WS28979	A107400-002	1,4-Dioxane by GC/MS isotopic dilution	11/5/2001

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A107285-001SURR	8270w_surr	2,4,6-Tribromophenol		166	ug/L	200	83		26	114
A107285-001SURR	8270w_surr	2-Fluorobiphenyl		70.7	ug/L	100	70.7		42	95
A107285-001SURR	8270w_surr	2-Fluorophenol		108	ug/L	200	54		23	80
A107285-001SURR	8270w_surr	Nitrobenzene-d5		85.9	ug/L	100	85.9		52	121
A107285-001SURR	8270w_surr	Phenol-d5		73.1	ug/L	200	36.5		20	61
A107285-001SURR	8270w_surr	Terphenyl-d14		80.7	ug/L	100	80.7		45	116
A107285-002MS	8270w_ms	1,2,4-Trichlorobenzene	ND	75.9	ug/L	100	75.9		42	91
A107285-002MS	8270w_ms	1,4-Dichlorobenzene	ND	63.5	ug/L	100	63.5		34	90
A107285-002MS	8270w_ms	2,4-Dinitrotoluene	ND	85.1	ug/L	100	85.1		46	128
A107285-002MS	8270w_ms	2-Chlorophenol	ND	178	ug/L	200	89		25	102
A107285-002MS	8270w_ms	4-Chloro-3-Methylphenol	ND	197	ug/L	200	98.5		10	126
A107285-002MS	8270w_ms	4-Nitrophenol	ND	108	ug/L	200	54		0.1	76
A107285-002MS	8270w_ms	Acenaphthene	ND	86.0	ug/L	100	86		38	90
A107285-002MS	8270w_ms	N-Nitroso-di-n-propylamine	ND	88.0	ug/L	100	88		46	97
A107285-002MS	8270w_ms	Pentachlorophenol	ND	175	ug/L	200	87.5		0.1	140
A107285-002MS	8270w_ms	Phenol	ND	78.5	ug/L	200	39.3		16	57
A107285-002MS	8270w_ms	Pyrene	ND	97.4	ug/L	100	97.4		36	104
A107285-002MSD	8270w_msd	1,2,4-Trichlorobenzene	ND	71.4	ug/L	100	71.4	6	42	91
A107285-002MSD	8270w_msd	1,4-Dichlorobenzene	ND	61.1	ug/L	100	61.1	4	34	90
A107285-002MSD	8270w_msd	2,4-Dinitrotoluene	ND	81.2	ug/L	100	81.2	5	46	128
A107285-002MSD	8270w_msd	2-Chlorophenol	ND	164	ug/L	200	82	8	25	102
A107285-002MSD	8270w_msd	4-Chloro-3-Methylphenol	ND	190	ug/L	200	95	4	10	126
A107285-002MSD	8270w_msd	4-Nitrophenol	ND	98.2	ug/L	200	49.1	10	0.1	76
A107285-002MSD	8270w_msd	Acenaphthene	ND	82.8	ug/L	100	82.8	4	38	90
A107285-002MSD	8270w_msd	N-Nitroso-di-n-propylamine	ND	83.7	ug/L	100	83.7	5	46	97
A107285-002MSD	8270w_msd	Pentachlorophenol	ND	157	ug/L	200	78.5	11	0.1	140
A107285-002MSD	8270w_msd	Phenol	ND	72.8	ug/L	200	36.4	8	16	57
A107285-002MSD	8270w_msd	Pyrene	ND	94.4	ug/L	100	94.4	3	36	104
A107285-002SURR	8270w_surr	2,4,6-Tribromophenol		141	ug/L	200	70.5		26	114
A107285-002SURR	8270w_surr	2-Fluorobiphenyl		59.8	ug/L	100	59.8		42	95
A107285-002SURR	8270w_surr	2-Fluorophenol		91.8	ug/L	200	45.9		23	80
A107285-002SURR	8270w_surr	Nitrobenzene-d5		72.1	ug/L	100	72.1		52	121
A107285-002SURR	8270w_surr	Phenol-d5		61.7	ug/L	200	30.9		20	61
A107285-002SURR	8270w_surr	Terphenyl-d14		83.4	ug/L	100	83.4		45	116
A107407-001SURR	8270w_surr	2,4,6-Tribromophenol		169	ug/L	200	84.5		26	114
A107407-001SURR	8270w_surr	2-Fluorobiphenyl		79.8	ug/L	100	79.8		42	95
A107407-001SURR	8270w_surr	2-Fluorophenol		118	ug/L	200	59		23	80

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107407-001SURR	8270w_surr	Nitrobenzene-d5		100.0	ug/L	100	100		52	121
A107407-001SURR	8270w_surr	Phenol-d5		104	ug/L	200	52		20	61
A107407-001SURR	8270w_surr	Terphenyl-d14		107	ug/L	100	107		45	116
A107417-001SURR	8270w_surr	2,4,6-Tribromophenol		127	ug/L	200	63.5		26	114
A107417-001SURR	8270w_surr	2-Fluorobiphenyl		56.6	ug/L	100	56.6		42	95
A107417-001SURR	8270w_surr	2-Fluorophenol		96.5	ug/L	200	48.3		23	80
A107417-001SURR	8270w_surr	Nitrobenzene-d5		69.9	ug/L	100	69.9		52	121
A107417-001SURR	8270w_surr	Phenol-d5		74.5	ug/L	200	37.3		20	61
A107417-001SURR	8270w_surr	Terphenyl-d14		72.7	ug/L	100	72.7		45	116
LCS	8270w_lcs	1,2,4-Trichlorobenzene		72.8	ug/L	100	72.8		34	98
LCS	8270w_lcs	1,4-Dichlorobenzene		62.4	ug/L	100	62.4		35	84
LCS	8270w_lcs	2,4-Dinitrotoluene		79.3	ug/L	100	79.3		43	121
LCS	8270w_lcs	2-Chlorophenol		162	ug/L	200	81		28	101
LCS	8270w_lcs	4-Chloro-3-Methylphenol		166	ug/L	200	83		20	125
LCS	8270w_lcs	4-Nitrophenol		95.7	ug/L	200	47.9		8	89
LCS	8270w_lcs	Acenaphthene		81.3	ug/L	100	81.3		35	91
LCS	8270w_lcs	N-Nitroso-di-n-propylamine		81.2	ug/L	100	81.2		46	95
LCS	8270w_lcs	Pentachlorophenol		152	ug/L	200	76		15	128
LCS	8270w_lcs	Phenol		74.8	ug/L	200	37.4		12	63
LCS	8270w_lcs	Pyrene		90.0	ug/L	100	90		24	117
Method Blank	8270w_bl	1,2,4-Trichlorobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	1,2-Dichlorobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	1,2-Diphenylhydrazine as Azobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	1,3-Dichlorobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	1,4-Dichlorobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	2,4,5-Trichlorophenol		ND	ug/L		0			100
Method Blank	8270w_bl	2,4,6-Trichlorophenol		ND	ug/L		0			100
Method Blank	8270w_bl	2,4-Dichlorophenol		ND	ug/L		0			5
Method Blank	8270w_bl	2,4-Dimethylphenol		ND	ug/L		0			5
Method Blank	8270w_bl	2,4-Dinitrophenol		ND	ug/L		0			150
Method Blank	8270w_bl	2,4-Dinitrotoluene		ND	ug/L		0			5
Method Blank	8270w_bl	2,6-Dinitrotoluene		ND	ug/L		0			5
Method Blank	8270w_bl	2-chloronaphthalene		ND	ug/L		0			5
Method Blank	8270w_bl	2-Chlorophenol		ND	ug/L		0			20
Method Blank	8270w_bl	2-Methylnaphthalene		ND	ug/L		0			5
Method Blank	8270w_bl	2-Methylphenol		ND	ug/L		0			5
Method Blank	8270w_bl	2-Nitroaniline		ND	ug/L		0			5

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Method Blank	8270w_bl	2-Nitrophenol		ND	ug/L		0			100
Method Blank	8270w_bl	3,3'-dichlorobenzidine		ND	ug/L		0			10
Method Blank	8270w_bl	3- & 4-Methylphenol		ND	ug/L		0			5
Method Blank	8270w_bl	3-Nitroaniline		ND	ug/L		0			5
Method Blank	8270w_bl	4,4'-DDD		ND	ug/L		0			5
Method Blank	8270w_bl	4,4'-DDE		ND	ug/L		0			5
Method Blank	8270w_bl	4,4'-DDT		ND	ug/L		0			5
Method Blank	8270w_bl	4,6-Dinitro-2-methylphenol		ND	ug/L		0			100
Method Blank	8270w_bl	4-Bromophenl phenyl ether		ND	ug/L		0			5
Method Blank	8270w_bl	4-Chloro-3-Methylphenol		ND	ug/L		0			10
Method Blank	8270w_bl	4-Chloroaniline		ND	ug/L		0			10
Method Blank	8270w_bl	4-Chlorophenyl phenyl ether		ND	ug/L		0			5
Method Blank	8270w_bl	4-Nitroaniline		ND	ug/L		0			5
Method Blank	8270w_bl	4-Nitrophenol		ND	ug/L		0			100
Method Blank	8270w_bl	Acenaphthene		ND	ug/L		0			5
Method Blank	8270w_bl	Acenaphthylene		ND	ug/L		0			5
Method Blank	8270w_bl	Aldrin		ND	ug/L		0			5
Method Blank	8270w_bl	alpha-BHC		ND	ug/L		0			5
Method Blank	8270w_bl	Anthracene		ND	ug/L		0			5
Method Blank	8270w_bl	Azobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	Benzidine		ND	ug/L		0			5
Method Blank	8270w_bl	Benzo (a) Anthracene		ND	ug/L		0			5
Method Blank	8270w_bl	Benzo (a) Pyrene		ND	ug/L		0			5
Method Blank	8270w_bl	Benzo (b) Fluoranthene		ND	ug/L		0			5
Method Blank	8270w_bl	Benzo (g,h,I) Perylene		ND	ug/L		0			5
Method Blank	8270w_bl	Benzo (k) Fluoranthene		ND	ug/L		0			5
Method Blank	8270w_bl	Benzoic Acid		ND	ug/L		0			100
Method Blank	8270w_bl	beta-BHC		ND	ug/L		0			5
Method Blank	8270w_bl	bis (2-Ethylhexyl) phthalate		ND	ug/L		0			5
Method Blank	8270w_bl	bis(2-Chloroethoxy) methane		ND	ug/L		0			5
Method Blank	8270w_bl	bis(2-Chloroethyl) Ether		ND	ug/L		0			5
Method Blank	8270w_bl	bis(2-Chloroisopropyl) ether		ND	ug/L		0			10
Method Blank	8270w_bl	Butyl benzyl phthalate		ND	ug/L		0			5
Method Blank	8270w_bl	Carbazole		ND	ug/L		0			5
Method Blank	8270w_bl	Chrysene		ND	ug/L		0			5
Method Blank	8270w_bl	delta-BHC		ND	ug/L		0			5
Method Blank	8270w_bl	di-n-Butyl phthalate		ND	ug/L		0			5

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Method Blank	8270w_bl	di-n-Octyl phthalate		ND	ug/L		0			5
Method Blank	8270w_bl	Dibenzo (a,h) Anthracene		ND	ug/L		0			20
Method Blank	8270w_bl	Dibenzofuran		ND	ug/L		0			5
Method Blank	8270w_bl	Dieldrin		ND	ug/L		0			5
Method Blank	8270w_bl	Diethyl phthalate		ND	ug/L		0			5
Method Blank	8270w_bl	Dimethyl phthalate		ND	ug/L		0			5
Method Blank	8270w_bl	Endosulfan I		ND	ug/L		0			5
Method Blank	8270w_bl	Endosulfan II		ND	ug/L		0			10
Method Blank	8270w_bl	Endosulfan sulfate		ND	ug/L		0			5
Method Blank	8270w_bl	Endrin		ND	ug/L		0			5
Method Blank	8270w_bl	Endrin aldehide		ND	ug/L		0			5
Method Blank	8270w_bl	Fluoranthene		ND	ug/L		0			5
Method Blank	8270w_bl	Fluorene		ND	ug/L		0			5
Method Blank	8270w_bl	gamma-BHC (lindane)		ND	ug/L		0			5
Method Blank	8270w_bl	Heptachlor		ND	ug/L		0			5
Method Blank	8270w_bl	Heptachlor epoxide		ND	ug/L		0			5
Method Blank	8270w_bl	Hexachlorobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	Hexachlorobutadiene		ND	ug/L		0			10
Method Blank	8270w_bl	Hexachlorocyclopentadiene		ND	ug/L		0			5
Method Blank	8270w_bl	Hexachloroethane		ND	ug/L		0			5
Method Blank	8270w_bl	Indene (1,2,3-cd) Pyrene		ND	ug/L		0			5
Method Blank	8270w_bl	Isophorone		ND	ug/L		0			5
Method Blank	8270w_bl	N-Nitroso-di-n-propylamine		ND	ug/L		0			5
Method Blank	8270w_bl	N-Nitroso-dimethylamine		ND	ug/L		0			5
Method Blank	8270w_bl	N-Nitroso-diphenylamine		ND	ug/L		0			5
Method Blank	8270w_bl	Naphthalene		ND	ug/L		0			5
Method Blank	8270w_bl	Nitrobenzene		ND	ug/L		0			5
Method Blank	8270w_bl	Pentachlorophenol		ND	ug/L		0			100
Method Blank	8270w_bl	Phenanthrene		ND	ug/L		0			5
Method Blank	8270w_bl	Phenol		ND	ug/L		0			10
Method Blank	8270w_bl	Pyrene		ND	ug/L		0			5
Method Blank	8270w_bl	Pyridine		ND	ug/L		0			10

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QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS29001	A107285-001	SVOC in water by EPA 8270	11/4/2001
WS29001	A107285-002	SVOC in water by EPA 8270	11/4/2001
WS29001	A107407-001	SVOC in water by EPA 8270	11/4/2001
WS29001	A107417-001	Semivolatile organics in water by EPA 82	11/4/2001

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A107285-001SURR	8260w_surr	1,2-Dichloroethane-d4		50.1	ug/L	50	100.2		71	136
A107285-001SURR	8260w_surr	4-Bromofluorobenzene		47.1	ug/L	50	94.1		76	131
A107285-001SURR	8260w_surr	Dibromofluoromethane		55.8	ug/L	50	111.6		70	130
A107285-001SURR	8260w_surr	Toluene-d8		54.0	ug/L	50	108		80	122
A107285-002SURR	8260w_surr	1,2-Dichloroethane-d4		51.9	ug/L	50	103.7		71	136
A107285-002SURR	8260w_surr	4-Bromofluorobenzene		48.4	ug/L	50	96.8		76	131
A107285-002SURR	8260w_surr	Dibromofluoromethane		57.0	ug/L	50	114.1		70	130
A107285-002SURR	8260w_surr	Toluene-d8		55.0	ug/L	50	110.1		80	122
A107417-001SURR	8260w_surr	1,2-Dichloroethane-d4		48.0	ug/L	50	95.9		71	136
A107417-001SURR	8260w_surr	4-Bromofluorobenzene		46.4	ug/L	50	92.8		76	131
A107417-001SURR	8260w_surr	Dibromofluoromethane		54.7	ug/L	50	109.3		70	130
A107417-001SURR	8260w_surr	Toluene-d8		51.7	ug/L	50	103.3		80	122
A107417-002SURR	8260w_surr	1,2-Dichloroethane-d4		52.2	ug/L	50	104.4		71	136
A107417-002SURR	8260w_surr	4-Bromofluorobenzene		47.2	ug/L	50	94.3		76	131
A107417-002SURR	8260w_surr	Dibromofluoromethane		57.6	ug/L	50	115.1		70	130
A107417-002SURR	8260w_surr	Toluene-d8		52.9	ug/L	50	105.8		80	122
LCS	8260w_lcs	1,1-Dichloroethene		37.7	ug/L	50	75.4		66	140
LCS	8260w_lcs	Benzene		45.1	ug/L	50	90.1		74	122
LCS	8260w_lcs	Chlorobenzene		47.9	ug/L	50	95.8		69	124
LCS	8260w_lcs	Toluene		48.9	ug/L	50	97.7		74	122
LCS	8260w_lcs	Trichloroethene		43.7	ug/L	50	87.3		71	137
LCSD	8260w_lcsd	1,1-Dichloroethene		37.8	ug/L	50	75.5	0	66	140
LCSD	8260w_lcsd	Benzene		44.3	ug/L	50	88.5	2	74	122
LCSD	8260w_lcsd	Chlorobenzene		44.7	ug/L	50	89.4	7	69	124
LCSD	8260w_lcsd	Toluene		47.4	ug/L	50	94.7	3	74	122
LCSD	8260w_lcsd	Trichloroethene		44.0	ug/L	50	88	1	71	137
Method Blank	8260w_bl	1,1,1,2-Tetrachloroethane		ND	ug/L		0			1
Method Blank	8260w_bl	1,1,1-Trichloroethane		ND	ug/L		0			1
Method Blank	8260w_bl	1,1,2,2-Tetrachloroethane		ND	ug/L		0			1
Method Blank	8260w_bl	1,1,2-Trichloroethane		ND	ug/L		0			1
Method Blank	8260w_bl	1,1-Dichloroethane		ND	ug/L		0			1
Method Blank	8260w_bl	1,1-Dichloroethene		ND	ug/L		0			1
Method Blank	8260w_bl	1,1-Dichloropropene		ND	ug/L		0			1
Method Blank	8260w_bl	1,2,3-Trichlorobenzene		ND	ug/L		0			5
Method Blank	8260w_bl	1,2,3-Trichloropropane		ND	ug/L		0			1
Method Blank	8260w_bl	1,2,4-Trichlorobenzene		ND	ug/L		0			5
Method Blank	8260w_bl	1,2,4-Trimethylbenzene		ND	ug/L		0			1

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Method Blank	8260w_bl	1,2-Dibomo-3-chloropropane (DBCP)		ND	ug/L		0			5
Method Blank	8260w_bl	1,2-Dibromoethane (EDB)		ND	ug/L		0			1
Method Blank	8260w_bl	1,2-Dichlorobenzene		ND	ug/L		0			1
Method Blank	8260w_bl	1,2-Dichloroethane		ND	ug/L		0			1
Method Blank	8260w_bl	1,2-Dichloropropane		ND	ug/L		0			1
Method Blank	8260w_bl	1,3,5-Trimethylbenzene		ND	ug/L		0			1
Method Blank	8260w_bl	1,3-Dichlorobenzene		ND	ug/L		0			1
Method Blank	8260w_bl	1,3-Dichloropropane		ND	ug/L		0			1
Method Blank	8260w_bl	1,4-Dichlorobenzene		ND	ug/L		0			1
Method Blank	8260w_bl	2,2-Dichloropropane		ND	ug/L		0			1
Method Blank	8260w_bl	2-Butanone (Methyl ethyl ketone)		ND	ug/L		0			5
Method Blank	8260w_bl	2-chloroethylvinyl Ether		ND	ug/L		0			5
Method Blank	8260w_bl	2-chlorotoluene		ND	ug/L		0			1
Method Blank	8260w_bl	2-Hexanone		ND	ug/L		0			5
Method Blank	8260w_bl	4-Chlorotoluene		ND	ug/L		0			1
Method Blank	8260w_bl	4-isopropyltoluene		ND	ug/L		0			1
Method Blank	8260w_bl	4-Methyl-2-pentanone (MiBK)		ND	ug/L		0			5
Method Blank	8260w_bl	Acetone		ND	ug/L		0			5
Method Blank	8260w_bl	Acrolein		ND	ug/L		0			10
Method Blank	8260w_bl	Acrylonitrile		ND	ug/L		0			10
Method Blank	8260w_bl	Benzene		ND	ug/L		0			1
Method Blank	8260w_bl	Bromobenzene		ND	ug/L		0			1
Method Blank	8260w_bl	Bromochloromethane		ND	ug/L		0			1
Method Blank	8260w_bl	Bromodichloromethane		ND	ug/L		0			1
Method Blank	8260w_bl	Bromoform		ND	ug/L		0			1
Method Blank	8260w_bl	Bromomethane		ND	ug/L		0			1
Method Blank	8260w_bl	Carbon Tetrachloride		ND	ug/L		0			1
Method Blank	8260w_bl	Chlorobenzene		ND	ug/L		0			1
Method Blank	8260w_bl	Chloroethane		ND	ug/L		0			1
Method Blank	8260w_bl	Chloroform		ND	ug/L		0			1
Method Blank	8260w_bl	Chloromethane		ND	ug/L		0			1
Method Blank	8260w_bl	cis-1,2-Dichloroethene		ND	ug/L		0			1
Method Blank	8260w_bl	cis-1,3-Dichloropropene		ND	ug/L		0			1
Method Blank	8260w_bl	Dibromochloromethane		ND	ug/L		0			1
Method Blank	8260w_bl	Dibromomethane		ND	ug/L		0			1
Method Blank	8260w_bl	Dichlorodifluoromethane		ND	ug/L		0			1
Method Blank	8260w_bl	Ethyl benzene		ND	ug/L		0			1

Note:

ND = Not Detected MS = Matrix Spike MSD = Matrix Spike Duplicate SURR = Surrogate
BL = Blank DUP = Duplicate RPD = Relative Percent Deviation LCS = Laboratory Control Standard

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Client: Stetson Engineers, Inc.
Project Name: LPVCWD DHS Permit

QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
Method Blank	8260w_bl	Hexachlorobutadiene		ND	ug/L		0			5
Method Blank	8260w_bl	isopropylbenzene		ND	ug/L		0			1
Method Blank	8260w_bl	m/p-Xylenes		ND	ug/L		0			1
Method Blank	8260w_bl	Methyl tert-Butyl Ether		ND	ug/L		0			3
Method Blank	8260w_bl	Methylene chloride (Dichloromethane)		ND	ug/L		0			5
Method Blank	8260w_bl	n-Butyl benzene		ND	ug/L		0			1
Method Blank	8260w_bl	n-Propyl benzene		ND	ug/L		0			1
Method Blank	8260w_bl	Naphthalene		ND	ug/L		0			5
Method Blank	8260w_bl	o-Xylene		ND	ug/L		0			1
Method Blank	8260w_bl	sec-Butyl benzene		ND	ug/L		0			1
Method Blank	8260w_bl	Styrene		ND	ug/L		0			1
Method Blank	8260w_bl	tert-Butyl benzene		ND	ug/L		0			1
Method Blank	8260w_bl	Tetrachloroethene		ND	ug/L		0			1
Method Blank	8260w_bl	Toluene		ND	ug/L		0			1
Method Blank	8260w_bl	trans-1,2-Dichloroethene		ND	ug/L		0			1
Method Blank	8260w_bl	trans-1,3-Dichloropropene		ND	ug/L		0			1
Method Blank	8260w_bl	Trichloroethene		ND	ug/L		0			1
Method Blank	8260w_bl	Trichlorofluoromethane (Freon 11)		ND	ug/L		0			1
Method Blank	8260w_bl	Vinyl Chloride		ND	ug/L		0			1

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS29026	A107285-001	Volatile Organics in water by EPA 8260B	10/31/2001
WS29026	A107285-002	Volatile Organics in water by EPA 8260B	10/31/2001
WS29026	A107417-001	Volatile Organics in water by EPA 8260A	10/31/2001
WS29026	A107417-002	Volatile Organics in water by EPA 8260A	10/31/2001

Note:

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QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107400-002MS	ndma_ms	N-Nitrosodimethylamine	53		ng/L	10			70	130
	QC Notes:	*not valid due to high sample background*								
A107400-002MSD	ndma_msd	N-Nitrosodimethylamine	53		ng/L	10			70	130
	QC Notes:	*not valid due to high sample background*								
LCS	ndma_lcs	N-Nitrosodimethylamine		7.93	ng/L	10	79.3		70	130
Method Blank	ndma_bl	N-Nitroso-dimethylamine		1.1	ng/L		0			0.5

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS29029	A107285-002	N-Nitrosodimethylamine	11/6/2001
WS29029	A107309-001	N-Nitrosodimethylamine	11/6/2001
WS29029	A107310-001	N-Nitrosodimethylamine	11/6/2001
WS29029	A107376-001	N-Nitrosodimethylamine	11/6/2001
WS29029	A107377-001	N-Nitrosodimethylamine	11/6/2001
WS29029	A107400-001	N-Nitrosodimethylamine	11/6/2001
WS29029	A107400-002	N-Nitrosodimethylamine	11/6/2001
WS29029	A107401-001	N-Nitrosodimethylamine	11/6/2001
WS29029	A107565-001	N-Nitrosodimethylamine	11/6/2001
WS29029	A107565-003	N-Nitrosodimethylamine	11/6/2001
WS29029	A107565-009	N-Nitrosodimethylamine	11/6/2001
WS29029	A107565-010	N-Nitrosodimethylamine	11/6/2001

Note:

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QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107285-002MS	314w_ms	Perchlorate	ND	22.5	ug/L	20	94		80	120
A107285-002MSD	314w_msd	Perchlorate	ND	23.1	ug/L	20	97	3	80	120
LCS	314w_lcs	Perchlorate		19.5	ug/L	20	97.5		85	115
Method Blank	314w_bl	Perchlorate		ND	ug/L		0			4

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS29102	A107203-001	Perchlorate in water by IC	11/9/2001
WS29102	A107230-001	Perchlorate in water by IC	11/9/2001
WS29102	A107237-002	Perchlorate in water by IC	11/9/2001
WS29102	A107247-010	Perchlorate in water by IC	11/9/2001
WS29102	A107247-011	Perchlorate in water by IC	11/9/2001
WS29102	A107257-001	Perchlorate in water by IC	11/9/2001
WS29102	A107257-002	Perchlorate in water by IC	11/9/2001
WS29102	A107257-003	Perchlorate in water by IC	11/9/2001
WS29102	A107257-004	Perchlorate in water by IC	11/9/2001
WS29102	A107285-001	Perchlorate in water by IC	11/9/2001
WS29102	A107285-002	Perchlorate in water by IC	11/9/2001
WS29102	A107290-001	Perchlorate in water by IC	11/9/2001
WS29102	A107310-001	Perchlorate in water by IC	11/9/2001
WS29102	A107565-001	Perchlorate in water by IC	11/9/2001
WS29102	A107565-003	Perchlorate in water by IC	11/9/2001
WS29102	A107565-004	Perchlorate in water by IC	11/9/2001
WS29102	A107565-005	Perchlorate in water by IC	11/9/2001
WS29102	A107565-006	Perchlorate in water by IC	11/9/2001
WS29102	A107701-002	Perchlorate in water by IC	11/9/2001

Note:

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BL = Blank | DUP = Duplicate | RPD = Relative Percent Deviation | LCS = Laboratory Control Standard

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QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107224-001MS	549.2_ms	Diquat	ND	18.5	ug/L	20	92.6		70	130
A107224-001MS	549.2_ms	Paraquat	ND	15.4	ug/L	20	76.8		70	130
A107224-001MSD	549.2_msd	Diquat	ND	17.4	ug/L	20	87.2	6	70	130
A107224-001MSD	549.2_msd	Paraquat	ND	10.00	ug/L	20	50	42	70	130
	QC Notes:	*due to unusual peak shape, investigation pending*								
LCS	549.2_lcs	Diquat		19.8	ug/L	20	99.2		70	130
LCS	549.2_lcs	Paraquat		19.3	ug/L	20	96.4		70	130
Method Blank	549.2_bl	Diquat		ND	ug/L		0			4
Method Blank	549.2_bl	Paraquat		ND	ug/L		0			4

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS29358	A107224-001	Diquat in drinking water by HPLC	11/8/2001
WS29358	A107224-002	Diquat in drinking water by HPLC	11/8/2001
WS29358	A107244-001	Diquat in drinking water by HPLC	11/8/2001
WS29358	A107285-001	Diquat in drinking water by HPLC	11/8/2001
WS29358	A107285-002	Diquat in drinking water by HPLC	11/8/2001

Note:

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QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
A107285-002MS	8330w_ms	1,3,5-Trinitrobenzene	ND	6.33	ug/L	6.5	97.4		70	130
A107285-002MS	8330w_ms	1,3-Dinitrobenzene	ND	5.82	ug/L	6.5	89.5		70	130
A107285-002MS	8330w_ms	2,4,6-Trinitrotoluene	ND	8.08	ug/L	6.5	124.4		70	130
A107285-002MS	8330w_ms	2,4-Dinitrotoluene	ND	6.26	ug/L	6.5	96.3		70	130
A107285-002MS	8330w_ms	2,6-Dinitrotoluene	ND	6.30	ug/L	6.5	96.9		70	130
A107285-002MS	8330w_ms	2-Amino-4,6-dinitrotoluene	ND	6.90	ug/L	6.5	106.1		70	130
A107285-002MS	8330w_ms	2-Nitrotoluene	ND	4.68	ug/L	6.5	72.1		70	130
A107285-002MS	8330w_ms	3-Nitrotoluene	ND	4.75	ug/L	6.5	73.1		70	130
A107285-002MS	8330w_ms	4-Amino-2,6-dinitrotoluene	ND	5.71	ug/L	6.5	87.8		70	130
A107285-002MS	8330w_ms	4-Nitrotoluene	ND	5.10	ug/L	6.5	78.5		70	130
A107285-002MS	8330w_ms	Hexahydro-1,3,5-trinitro-1,3,5-triazine	ND	6.05	ug/L	6.5	93.1		70	130
A107285-002MS	8330w_ms	HMX	ND	6.37	ug/L	6.5	98		70	130
A107285-002MS	8330w_ms	Methyl-2,4,6-trinitrophenylnitramine	ND	5.62	ug/L	6.5	86.5		70	130
A107285-002MS	8330w_ms	Nitrobenzene	ND	4.39	ug/L	6.5	67.6		70	130
	QC Notes:	*slightly below limit; suspect of matrix effect*								
A107285-002MSD	8330w_msd	1,3,5-Trinitrobenzene	ND	6.69	ug/L	6.5	103	6	70	130
A107285-002MSD	8330w_msd	1,3-Dinitrobenzene	ND	6.61	ug/L	6.5	101.7	13	70	130
A107285-002MSD	8330w_msd	2,4,6-Trinitrotoluene	ND	8.85	ug/L	6.5	136.2	9	70	130
	QC Notes:	*Recovery higher than acceptance limit; suspect matrix effect*								
A107285-002MSD	8330w_msd	2,4-Dinitrotoluene	ND	6.61	ug/L	6.5	101.6	5	70	130
A107285-002MSD	8330w_msd	2,6-Dinitrotoluene	ND	6.47	ug/L	6.5	99.5	3	70	130
A107285-002MSD	8330w_msd	2-Amino-4,6-dinitrotoluene	ND	7.22	ug/L	6.5	111	5	70	130
A107285-002MSD	8330w_msd	2-Nitrotoluene	ND	4.86	ug/L	6.5	74.7	4	70	130
A107285-002MSD	8330w_msd	3-Nitrotoluene	ND	5.00	ug/L	6.5	76.9	5	70	130
A107285-002MSD	8330w_msd	4-Amino-2,6-dinitrotoluene	ND	5.46	ug/L	6.5	84	4	70	130
A107285-002MSD	8330w_msd	4-Nitrotoluene	ND	5.32	ug/L	6.5	81.8	4	70	130
A107285-002MSD	8330w_msd	Hexahydro-1,3,5-trinitro-1,3,5-triazine	ND	6.66	ug/L	6.5	102.5	10	70	130
A107285-002MSD	8330w_msd	HMX	ND	6.30	ug/L	6.5	97	1	70	130
A107285-002MSD	8330w_msd	Methyl-2,4,6-trinitrophenylnitramine	ND	5.29	ug/L	6.5	81.3	6	70	130
A107285-002MSD	8330w_msd	Nitrobenzene	ND	4.60	ug/L	6.5	70.8	5	70	130
LCS	8330w_lcs	1,3,5-Trinitrobenzene		6.12	ug/L	6.5	94.1		70	130
LCS	8330w_lcs	1,3-Dinitrobenzene		6.23	ug/L	6.5	95.8		70	130
LCS	8330w_lcs	2,4,6-Trinitrotoluene		4.64	ug/L	6.5	71.4		70	130
LCS	8330w_lcs	2,4-Dinitrotoluene		6.39	ug/L	6.5	98.4		70	130
LCS	8330w_lcs	2,6-Dinitrotoluene		6.42	ug/L	6.5	98.7		70	130
LCS	8330w_lcs	2-Amino-4,6-dinitrotoluene		6.71	ug/L	6.5	103.3		70	130
LCS	8330w_lcs	2-Nitrotoluene		4.90	ug/L	6.5	75.4		70	130

Note:

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Project Name: LPVCWD DHS Permit

QC Report Date: *Wednesday, November 21, 2001*
Project #:

QUALITY CONTROL REPORT

QC Lab#	TestGroup	Parameter	Sample Result	QC Result	Units	Amt. Added/ True Value	%R or RPD	%RPD for MSD	Low Limit	High Limit
LCS	8330w_lcs	3-Nitrotoluene		5.05	ug/L	6.5	77.7		70	130
LCS	8330w_lcs	4-Nitrotoluene		5.30	ug/L	6.5	81.5		70	130
LCS	8330w_lcs	Hexahydro-1,3,5-trinitro-1,3,5-triazine		5.99	ug/L	6.5	92.2		70	130
LCS	8330w_lcs	HMX		6.31	ug/L	6.5	97.1		70	130
LCS	8330w_lcs	Methyl-2,4,6-trinitrophenylnitramine		5.01	ug/L	6.5	77		70	130
LCS	8330w_lcs	Nitrobenzene		4.75	ug/L	6.5	73.1		70	130
Method Blank	8330w_bl	1,3,5-Trinitrobenzene		ND	ug/L		0			1
Method Blank	8330w_bl	1,3-Dinitrobenzene		ND	ug/L		0			1
Method Blank	8330w_bl	2,4,6-Trinitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	2,4-Dinitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	2,6-Dinitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	2-Amino-4,6-dinitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	2-Nitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	3-Nitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	4-Amino-2,6-dinitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	4-Nitrotoluene		ND	ug/L		0			1
Method Blank	8330w_bl	Hexahydro-1,3,5-trinitro-1,3,5-triazine		ND	ug/L		0			1
Method Blank	8330w_bl	HMX		ND	ug/L		0			1
Method Blank	8330w_bl	Methyl-2,4,6-trinitrophenylnitramine		ND	ug/L		0			1
Method Blank	8330w_bl	Nitrobenzene		ND	ug/L		0			1

Worksheet #:	Lab#:	Test Name	Analyzed Date
WS29419	A107285-001	Nitroaromatics and Nitramines for water	11/20/2001
WS29419	A107285-002	Nitroaromatics and Nitramines for water	11/20/2001

Note:

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Weck Laboratories, Inc.

Analytical & Environmental Services

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CHAIN OF CUSTODY RECORD

CLIENT NAME: Stetson Engineers Inc.

PROJECT: LPVCWD DHS Permit

ADDRESS: 3104 E. Garvey Avenue Suite A West Covina, CA. 91791

PHONE #: 626-967-6202

FAX #: 626-331-7065

PROJECT MANAGER: Kevin Smead

SAMPLER: Chad Blais

P.O. #: 1789-22

SPECIAL HANDLING

- ☐ Same Day Rush
- ☐ 24 Hour Rush
- ☐ 48 - 72 Hour Rush
- ☐ 4 - 5 Days
- ☑ 7 - 10 Business Days
- ☐ QA/QC Package

Reporting Agency _____

Method of Shipment _____

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	General / Physical	General / Minerals	Full Metals Scan	Mercury 245.1	Chromium VI 218.6	Perchlorate 314	NDMA EPA 1625m	Nitroaromatics and	Nitramines 8330		Gross Alpha / Beta 900.0	REMARKS
A107285-001	10/24/01	9:20 am	GW	Well No. 3	21	X	X	X	X	X	X	X	X			X	
A107285-002	10/24/01	9:50 am	GW	SP-6	32	X	X	X	X	X	X	X	X			X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
[signature]	10/24/01 11:00 am	[signature]	11:07 10-24-01
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:

Actual Temperature: 18°C

Received On Ice (Y) / N

Preserved (Y) / N

Evidence Seals Intact Y / N

Container Attacked Y (N)

Preserved at Lab Y (N)

SAMPLE TYPE CODE:

AQ = Aqueous
NA = Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

RUSH TURN AROUND TIME MAY REQUIRE SURCHARGE
TERMS AND CONDITIONS: SEE BACK OF THIS FORM

SPECIAL REQUIREMENTS / BILLING INFORMATION: Please send results and copy of invoice to Stetson Engineers Inc. and bill Mike Berlien (LPVCWD) at 15825 East Main Street, La Puente CA. 91744

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

WL Weck Laboratories, Inc.
Analytical & Environmental Services
14859 East Clark Avenue • Industry, CA 91745
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CHAIN OF CUSTODY RECORD

CLIENT NAME: Stetson Engineers Inc
PROJECT: LPVCWD DHS Permit
ADDRESS: 3104 E. Garvey Avenue Suite A West Covina CA. 91791
PHONE #: 626-967-6202
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PROJECT MANAGER: Kevin Smead
SAMPLER: Chad Blais
P.O. #: 1789-22

SPECIAL HANDLING
- ☐ Same Day Rush
- ☐ 24 Hour Rush
- ☐ 48 - 72 Hour Rush
- ☐ 4 - 5 Days
- ☑ 7 - 10 Business Days
- ☐ QA/QC Package

Reporting Agency _____
Method of Shipment _____

ANALYSIS REQUESTED

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Aldicarbs 531.1	Diquat/Paraquat 549.1	EDB/DBCP 504.1	VOCs 8260B w/ TIC	SOCs 8270C w/ TIC	1,4-Dioxane 8270M	1,2,3-TCP 504.1	VOC 524.2			REMARKS
A107285-001	10/24/01	9:20 am	GW	Well No. 3		X	X	X	X	X	X	X	X			
A107285-002	10/24/01	9:50 am	GW	SP-6		X	X	X	X	X	X	X	X			
2 003				TRAVEL BLANK	1				X				X			
				Total Number of QA/QC Bottles =	8											

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
[signature]	10/24/01 11:10 am	[signature]	11-24-01 11:07
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:
Actual Temperature: 18°C
Received On Ice Y / N
Preserved Y / N
Evidence Seals Intact Y / N
Container Attacked Y / N
Preserved at Lab Y / N

SAMPLE TYPE CODE:
AQ= Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

RUSH TURN AROUND TIME MAY REQUIRE SURCHARGE TERMS AND CONDITIONS: SEE BACK OF THIS FORM

SPECIAL REQUIREMENTS / BILLING INFORMATION: Please send results and copy of invoice to Stetson Engineers Inc and bill Mike Berlien (LPVCWD) at 15825

[redacted] DIS[redacted]LITI[redacted] [redacted] & C[redacted]RY [redacted] abo[redacted] [redacted]PINK[redacted]r Cli[redacted] [redacted]

APPENDIX F

EPA
MONITORING WELL
DATA

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 1625M	n-Nitrosodimethylamine	2	ng/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 314	PERCHLORATE (CLO4)	11	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,1,1-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,1-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,1-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Carbon Tetrachloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Chloroform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Tetrachloroethene	3.4	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Trichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	218	5/29/01	EPA METHOD 8270M	1,4-Dioxane	0.65	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 1625M	n-Nitrosodimethylamine	4.9	ng/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 314	PERCHLORATE (CLO4)	11	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,1,1-Trichloroethane	2.4	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,1-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,1-Dichloroethene	15	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Carbon Tetrachloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Chloroform	2	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	12	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Tetrachloroethene	54	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Trichloroethene	130	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	380	5/29/01	EPA METHOD 8270M	1,4-Dioxane	3	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 1625M	n-Nitrosodimethylamine	14	ng/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 314	PERCHLORATE (CLO4)	6.3	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,1,1-Trichloroethane	3.8	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,1-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,1-Dichloroethene	20	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	2 Hexanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Carbon Tetrachloride	3.1	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Chloroform	1.4	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	13	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Tetrachloroethene	39	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Trichloroethene	170	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	464	5/29/01	EPA METHOD 8270M	1,4-Dioxane	3.1	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 1625M	n-Nitrosodimethylamine	2	ng/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 314	PERCHLORATE (CLO4)	7.1	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,1,1-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,1-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,1-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Carbon Tetrachloride	8	ug/L		YES	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Chloroform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Tetrachloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Trichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	INVE	552	5/29/01	EPA METHOD 8270M	1,4-Dioxane	1.3	ug/L		YES	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 1625M	n-Nitrosodimethylamine	2	ng/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 314	PERCHLORATE (CLO4)	4	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,1,1-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,1-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,1-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2-Dichloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Acetone	31	ug/L		YES	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Carbon Tetrachloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Chloroform	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Tetrachloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Trichloroethene	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
508	BPW505	WATER	RINSE BLANK	0	5/29/01	EPA METHOD 8270M	1,4-Dioxane	0.5	ug/L	U	NO	WECK LABS

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 1625M	n-Nitrosodimethylamine	1200	ng/L	J	YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 314	PERCHLORATE (CLO4)	150	ug/L	J	YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,1,1-Trichloroethane	4.4	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,1-Dichloroethane	5.7	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,1-Dichloroethene	24	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2-Dichloroethane	4.1	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Carbon Tetrachloride	2.9	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Chloroform	12	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	35	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Dichlorodifluoromethane	1.4	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Tetrachloroethene	130	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Trichloroethene	300	ug/L		YES	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	FIELD DUP	450	5/30/01	EPA METHOD 8270M	1,4-Dioxane	10	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 1625M	n-Nitrosodimethylamine	4.2	ng/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 314	PERCHLORATE (CLO4)	67	ug/L	J	YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,1,1-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,1-Dichloroethane	1.4	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,1-Dichloroethene	8.6	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2-Dichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Carbon Tetrachloride	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Chloroform	2.3	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	16	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Tetrachloroethene	20	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Trichloroethene	88	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	235	5/30/01	EPA METHOD 8270M	1,4-Dioxane	4.3	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 1625M	n-Nitrosodimethylamine	1100	ng/L	J	YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 314	PERCHLORATE (CLO4)	150	ug/L	J	YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,1,1-Trichloroethane	5.3	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,1-Dichloroethane	6.2	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,1-Dichloroethene	31	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2-Dichloroethane	4.3	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Carbon Tetrachloride	3.5	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Chloroform	13	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	38	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Dichlorodifluoromethane	1.9	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Tetrachloroethene	160	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Trichloroethene	310	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	450	5/30/01	EPA METHOD 8270M	1,4-Dioxane	9.1	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 1625M	n-Nitrosodimethylamine	280	ng/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 314	PERCHLORATE (CLO4)	230	ug/L	J	YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,1,1-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,1-Dichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,1-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2-Dichloroethane	8	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Acetone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Carbon Tetrachloride	3.5	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Chloroform	4.3	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	2	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Tetrachloroethene	3.5	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Trichloroethene	170	ug/L		YES	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	INVE	670	5/30/01	EPA METHOD 8270M	1,4-Dioxane	11	ug/L		YES	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 1625M	n-Nitrosodimethylamine	2	ng/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 314	PERCHLORATE (CLO4)	4	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,1,1,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,1,1-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,1,2,2-Tetrachloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,1,2-Trichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,1-Dichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,1-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,1-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2,3-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2,3-Trichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2,4-Trichlorobenzene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2,4-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2-Dibromo-3-chloropropane	5	ug/L	U	NO	WECK LABS

SITE_num	SITE	MEDIA	SAMPLE_TYPE	TOP_DEPTH	SAMPLE_DATE	TEST_METHOD	PARAMETER	VALUE	UNIT	QUALIFIER	DETECTED	LAB
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2-Dibromoethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2-Dichloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,2-Dimethylbenzene / o-Xylene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,3,5-Trimethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,3-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,3-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	1,4-Dichlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	2,2-Dichloropropane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	2-Butanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	2-Chloroethyl vinyl ether	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	2-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	2-Hexanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	2-Methoxy-2-methylpropane	3	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	4-Chlorotoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	4-Isopropyltoluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	4-Methyl-2-Pentanone	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Acetone	12	ug/L		YES	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Acrolein	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Acrylonitrile	10	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Benzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Bromobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Bromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Bromodichloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Bromoform	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Bromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Carbon Tetrachloride	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Chlorobenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Chloroethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Chloroform	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Chloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	cis-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	cis-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Dibromochloromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Dibromomethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Dichlorodifluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Ethylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Hexachlorobutadiene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Isopropylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	m,p-Xylenes	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Methylene Chloride	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	n-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	n-Propylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Naphthalene	5	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	sec-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Styrene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	tert-Butylbenzene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Tetrachloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Toluene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	trans-1,2-Dichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	trans-1,3-Dichloropropene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Trichloroethene	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Trichlorofluoromethane	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8260B	Vinyl Chloride	1	ug/L	U	NO	WECK LABS
512	BPW515	WATER	RINSE BLANK	0	5/30/01	EPA METHOD 8270M	1,4-Dioxane	0.5	ug/L	U	NO	WECK LABS

APPENDIX B

TECHNICAL PERFORMANCE REPORT

FOR THE

LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT FACILITY

JUNE 27, 2003

STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

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SECTION I
BACKGROUND

Introduction

The California Department of Health Services (DHS) issued Permit Amendment No. 04-16-01PA-000 (see Appendix A) to La Puente Valley County Water District (LPVCWD) on February 15, 2001 for operation of its treatment facility located at 1695 Puente Avenue in the City of Baldwin Park (Treatment Facility), as shown on Plate 1. The Treatment Facility consists of two air stripping towers to treat Volatile Organic Compounds (VOCs), one Ion exchange (ISEP) system to treat Perchlorate and one ultraviolet light/oxidation (Rayox) system to treat N-nitrosodimethylamine (NDMA) and 1,4-Dioxane. A technical report describing the operation of the treatment facility for the period March 1, 2001 through February 28, 202 was submitted to DHS on April 30, 2002.

On May 8, 2002, DHS issued Permit Amendment No. 04-16-02PA-000 (see Appendix B) to reflect a change in the NDMA and 1,4-Dioxane treatment process to UVTerra, a low-energy ultraviolet light/oxidation system. No other modifications had been made at the time Permit 04-16-02PA-000 was issued. The revised treatment process is shown on Plate 2.

Treatment Facility Permitting Process

LPVCWD submitted an Impaired Source Evaluation report pursuant to DHS Policy Memorandum 97-005 to operate the Treatment Facility and use the treated water as the source of drinking water supply. The final report was dated December 2000. Following a Public Hearing on February 6, 2001, DHS issued Permit Amendment No. 04-16-01PA-000 to LPVCWD on February 15, 2001. The Treatment Facility started operation on March 6, 2001.

On February 13, 2002, LPVCWD submitted an application for a permit amendment to use UVTerra treatment facility manufactured by Trojan Technologies Inc. (Trojan) to treat NDMA and 1,4-Dioxane. In addition, a revised Operation, Maintenance and Monitoring Plan dated April 2002 was submitted to DHS. DHS issued Permit Amendment No. 04-16-02PA-000 to LPVCWD on May 8, 2002. One of the conditions of the Permit Amendment is to provide a technical performance report to DHS by July 1, 2003. This technical report encompasses the period from March 1, 2002 through April 30, 2003.

Permit Provisions

1. Permit provision number 7 requires LPVCWD to operate all treatment facilities by personnel who have been certified in accordance with the

Regulations relating to Certification of Water Treatment Facility Operation, Title 17, and California Code of Regulations. DHS requires a minimum of a Grade 3 Treatment Plant certificate to supervise operation of the Treatment Facility.

The following is a list of operators who are responsible for the operation of the Treatment Facility. The operators may be reached at the Treatment Facility at (626) 480-8466.

Operator	Grade	Certification Number
Michael Berlien		
Treatment Plant	3	18601
Distribution	3	06876
Christopher Sanchez		
Treatment Plant	2	19573
Distribution	3	7366
Erik Moss		
Treatment Plant	1	17457
Distribution	2	15472

2. Permit provision number 16 requires LPVCWD to operate the air stripping towers and their appurtenances in compliance with the requirements of the South Coast Air Quality Management District (AQMD)

   A copy of the AQMD permits and the Operation and Maintenance Plan for carbon change-out are included in Appendix A.

3. Permit provision number 28 requires LPVCWD to obtain water quality data at wells upgradient of LPVCWD's wellfield in order to provide early detection of any new constituents or significant changes of previously identified constituents.

   This is discussed in Section II under Special Monitoring.

SECTION II
TREATMENT FACILITY PERFORMANCE

The technical performance report summarizes the overall operational performance of the Treatment Facility and each of its component parts.

Source Water

Description of Operation

The source of supply to the Treatment Facility was exclusively from Well No. 3 between March 1, 2002 and August 14, 2002. Well No. 3 was producing only approximately 1,600 gpm, which was not consistent with the Baldwin Park Operable Unit (BPOU) Project Agreement. Consequently, LPVCWD activated Well No. 2 on August 15, 2002 and operated Wells No. 2 and No. 3 together to provide water to the Treatment Facility. Well No. 2 was operated at 800 gpm and Well No. 3 was operated at 1,600 gpm to maintain a total flow rate through the Treatment Facility at no more than 2,500 gpm. The letter dated August 15, 2002 from LPVCWD notifying DHS of the activation of Well No. 2 is included in Appendix B.

Well No. 2 and Wells No. 3 were operated together until January 9, 2003, at which time Well No. 3 was taken out of service for rehabilitation. Well No. 2 was operated alone to provide water to the Treatment Facility until March 27, 2003, at which time Well No. 3 returned to service and the two wells are again operated together.

Quantity Treated

From March 1, 2002 through April 30, 2003, the groundwater production at Well No. 3 and Well No. 2 was 2,031 acre-feet and 858 acre-feet, respectively for a total of 2,889 acre-feet or about 1,790 gpm. The production data for Well No. 3 and Well No. 2 are included in Table 1 and shown in Figure 1. The minimum total monthly production from both wells was 87 acre-feet in December 2002 and the maximum total monthly production from both wells was 296 acre-feet in October 2002.

Operational Problems

No problem has occurred at the wells between March 1, 2002 and April 30, 2003, other than the decrease in production at Well No. 3. Well No. 3 was taken out of service for rehabilitation from January 9, 2003 to March 27, 2003, during which time Well No. 2 was the sole source of supply to the Treatment Facility

Raw Water Quality Results Summary

When Well No. 2 or Well No. 3 was operated alone, raw water samples were collected from the operating well at SP-1, as shown on Plate 2, on a weekly basis.

When Well No. 2 and No. 3 were operated at the same time, alternating samples were collected from Well No. 2 and Well No. 3 on a weekly basis. VOCs, Perchlorate, NDMA, 1,4-Dioxane, and Nitrate were analyzed and results have been plotted. Figures 2 through 9 show water quality trends for samples collected at Well No. 2 and Well No. 3 for Trichloroethylene (TCE), Tetrachlorothylene (PCE), Carbon Tetrachloride (CTC), 1,2-Dichloroethane (1,2-DCA), Perchlorate, 1,4-Dioxane, NDMA and Nitrate, respectively.

Figure 2 shows TCE concentrations in the raw water fluctuated between about 20 micrograms per liter (µg/l) and 60 µg/l at Well No. 2 and between about 30 µg/l and 50 µg/l at Well No. 3. The concentrations are above the Maximum Contaminant Level (MCL) of 5 µg/l. TCE concentrations are generally trending lower at both wells. As shown on Table 2, the TCE concentrations averaged about 42.7 µg/l with a high value of 60 µg/l and a low value of 19 µg/l at Well No. 2 and averaged about 37 µg/l with a high value of 49 µg/l and a low value of 27 µg/l at Well No. 3.

Figure 3 shows PCE concentrations in the raw water fluctuated between about 1 µg/l and 5 µg/l at Well No. 2 and between about 2.5 µg/l and 4.5 µg/l at Well No. 3. The concentrations are below the MCL of 5 µg/l. PCE concentrations are generally trending lower at both wells. As shown on Table 3, the PCE concentrations averaged about 2.3 µg/l with a high value of 4.5 µg/l and a low value of 0.7 µg/l at Well No. 2 and averaged about 3.4 µg/l with a high value of 4.3 µg/l and a low value of 2.7 µg/l at Well No. 3.

Figure 4 shows CTC concentrations in the raw water fluctuated between about 2 µg/l and 7 µg/l at Well No. 2 and between about 1.5 µg/l and 3 µg/l at Well No. 3. The concentrations are above the MCL of 0.5 µg/l. There is no apparent trend at Well No. 2, but CTC is generally trending lower in Well No. 3. As shown on Table 4, the CTC concentrations averaged about 4.9 µg/l with a high value of 7.2 µg/l and a low value of 2.0 µg/l at Well No. 2 and averaged about 2.2 µg/l with a high value of 2.9 µg/l and a low value of 1.6 µg/l at Well No. 3.

Figure 5 shows 1,2-DCA concentrations in the raw water fluctuated between about 1 µg/l and 4 µg/l at Well No. 2 and between about 1.5 µg/l and 3 µg/l at Well No. 3. The concentrations are above the MCL of 0.5 µg/l. The 1,2-DCA concentrations are generally trending lower in both wells. As shown on Table 5, the 1,2-DCA concentrations averaged about 2.2 ug/l with a high value of 3.9 µg/l and a low value of 0.9 µg/l at Well No. 2 and averaged about 2.4 µg/l with a high value of 3.2 µg/l and a low value of 1.7 µg/l at Well No. 3.

Figure 6 shows Perchlorate concentrations in the raw water fluctuated between about 40 µg/l and 70 µg/l at Well No. 2 and between about 30 µg/l and 70 µg/l at Well No. 3. The concentrations are above the Action Level (AL) of 4 µg/l. The concentrations of Perchlorate appear to decrease over time at both wells. As shown on Table 6, the Perchlorate concentrations averaged about 49.5 µg/l with a high value of 74 µg/l and a low value of 41 µg/l at Well No. 2 and averaged about 56.8 µg/l with a high value of 71 µg/l and a low value of 33 µg/l at Well No. 3.

Figure 7 shows 1,4-Dioxane concentrations in the raw water fluctuated between about 0.5 μg/l and 2.5 μg/l at Well No. 2 and between 0 μg/l and 3.5 μg/l at Well No. 3. The concentrations are below the AL of 3 μg/l, except for one high result of 3.5 μg/l detected at Well No. 3 in August 2002. The concentrations of 1,4-Dioxane appear to decrease over time at both wells. As shown on Table 7, the 1,4-Dioxane concentrations averaged about 1.4 μg/l with a high value of 2.6 μg/l and a low value of 0.6 μg/l at Well No. 2 and averaged about 1.7 μg/l with a high value of 3.5 μg/l and a low value of 0 μg/l at Well No. 3.

Figure 8 shows NDMA concentrations in the raw water fluctuated between about 100 nanograms per liter (ng/l) and 300 ng/l at Well No. 2 and between about 150 ng/l and 450 ng/l at Well No. 3. The concentrations are above the AL of 10 ng/l. There is no apparent trend at Well No. 2, but appears to be trending lower at Well No. 3. As shown on Table 8, the NDMA concentrations averaged about 209 ng/l with a high value of 290 ng/l and a low value of 110 ng/l at Well No. 2 and averaged about 310 ng/l with a high value of 420 ng/l and a low value of 170 ng/l at Well No. 3.

Figure 9 shows Nitrate concentrations in the raw water fluctuated between about 15 milligrams per liter (mg/l) and 30 mg/l at Well No. 2 and between about 20 mg/l and 30 mg/l at Well No. 3. The concentrations are below the MCL of 45 mg/l. There is no apparent trend at either well. As shown on Table 9, the Nitrate concentrations averaged about 18.5 mg/l with a high value of 27 mg/l and a low value of 17 mg/l at Well No. 2 and averaged about 26.4 mg/l with a high value of 29 mg/l and a low value of 25 mg/l at Well No. 3.

An analysis of groundwater production, shown on Figure 1, and the raw water quality shown in Figures 2 through 9, does not indicate any obvious correlation between water production and water quality. In addition, there was no apparent seasonal variation on the contaminant concentrations.

Evaluation of Sensitivity of Previous Source Water Monitoring

The design of the Treatment Facility is based on the historic highest concentrations from the prior source monitoring. Table 10 shows the historic high, as well as the minimum, average and maximum contaminant concentrations for samples collected between March 1, 2002 and April 30, 2003 at Wells No. 2 and No. 3. The maximum concentrations detected in the raw water for all the contaminants are below the historic high, except for CTC at Well No. 2 and 1,4-Dioxane at Well No. 3, which are slightly higher than the historic highest results.

The determining compound for the design of the air stripping tower is 1,2-DCA due to its low Henry's Law constant. The recent maximum concentration of 1,2-DCA is lower than the historic high of 1,2-DCA at both wells. Therefore, all the other VOCs, including CTC, were expected to be treated to below the detection limit.

Although 1,4–Dioxane was detected at 3.5 ug/l on August 5, 2003 at Well No. 3, higher than the historic high of 3.4 ug/l, the treated water results for 1,4-Dioxane

discussed later in the report show that 1,4-Dioxane was removed to below the detection limit at all times.

VOC Treatment Facility

Summary of Design Parameters

Groundwater from Wells No. 3 and No. 2 is pumped to the top of each air stripping tower and flows over the packing material. The VOCs are transferred from the water to air flowing in a countercurrent direction. The VOCs in the air are removed by an activated carbon vessel and the clean air is released to the atmosphere. Air Stripper No.1 has an off-gas control unit with 7,000 pounds of granular activated carbon (GAC). Air Stripper No. 2 has an off-gas control unit containing 20,400 pounds of GAC. The treated groundwater flows by gravity into a 15,000 gallon wet well. Both air stripping towers were designed to reduce the VOCs in the raw water to below MCLs.

Air stripping tower No. 1 and No. 2 were designed for a maximum flowrate of 1,000 gpm and 1,500 gpm, respectively. The minimum volumetric air to water ratio for air stripping tower No. 1 is 30 to 1 and for air stripping tower No. 2 is 60 to 1. Between March 1, 2002 and April 30, 2003:

- The flow rate through air stripping tower No. 1 and No. 2 averaged approximately 800 gpm and 1,000 gpm, respectively from March 2002 to July 2002; and averaged approximately 1,000 gpm and 1,500 gpm, respectively from August 2002 to April 2003, as shown on Table 1.

- The Air to water ratios remained constant at 56:1 for air stripping tower No. 1 and 64:1 for air stripping tower No. 2, as shown Table 1.

The flow rate and the air to water ratio through both air stripping towers met the maximum design flow rate and minimum air to water ratio requirements between March 1, 2002 and April 30, 2003.

Operational Modifications

There were no changes made to the operation of the air strippers besides routine maintenance. The vapor phase granular activated carbon on the off-gas units was changed out in July 2002, October 2002, December 2002 and February 2003.

Summary of Treated Water Quality Results

Treated water samples were collected on a weekly basis at SP-6 as shown on Plate 2. TCE, PCE, CTC and 1,2-DCA were analyzed and results are plotted in Figures 2 through 5, respectively.

Figures 2 through 5 show treated water concentrations of TCE, PCE, CTC and 1,2-DCA are always non-detect between March 1, 2002 through April 30, 2003

even when CTC was detected above the historic highest level at Well No. 2 in April 2003.

Evaluation of Sensitivity of Monitoring Program

The Treatment Facility was designed to treat contaminants at their historic highest concentrations to non-detectable levels. As shown on Table 10, from March 1, 2002 to April 30, 2003, none of the VOCs were detected above the historic high, except for CTC at Well No. 2, which was treated to non-detectable level. In addition, all the VOCs detected in the raw water were treated to non-detectable levels by the air stripping towers. Therefore, weekly treated water monitoring appears to be an adequate frequency for the detection of the raw and treated water concentrations for VOCs.

VOC Removal Efficiency

When using the detection limit of 0.5 µg/l on all the sampling results that are non-detect to calculate the monthly contaminant removal efficiency, the average TCE, PCE, CTC and 1,2-DCA removal efficiency for air stripping tower No.1 and No. 2 was about 99, 81, 81 and 77 percent, respectively. When using zero for all the sampling results that are non-detect to calculate the monthly contaminant removal efficiency, the removal efficiency for air stripping tower No.1 and No. 2 is 100 percent, as shown on Tables 2 through 5.

Operational Problem

During March 2003, air stripping tower No. 2 failed when the circuit breaker on the blower tripped and caused the entire Treatment Facility to shutdown. The circuit breaker was reset and the Treatment Facility returned to service after four hours. During that period of time LPVCWD provided water from the Main Street Reservoir. No other operational problem has occurred at the air stripping towers between March 1, 2002 and April 30, 2003.

Perchlorate Treatment Facility (ISEP)

Summarize Design Parameters

The ISEP continuous ion exchange module consists of 30 resin-filled vessels (ion exchange columns) arranged in a carousel on a rotating frame, brine and rinse water systems, and a process control system. The ISEP module is designed to treat Perchlorate at a concentration up to 200 µg/l.

Summary of Treated Water Quality Results

Treated water samples were collected on a weekly basis for Perchlorate at SP-6, as shown on Plate 2. Perchlorate was detected eight times between March 1, 2002 and April 30, 2003 at concentrations between 3 µg/l, the laboratory reporting limit (RL) and 4 µg/l, the detection limit for the purpose of reporting (DLR) by DHS.

Perchlorate was detected twice above the DLR in the treated water on two non-consecutive events between March 1, 2002 and April 30, 2003, as shown in Table 6 and Figure 6. The concentrations were 4.1 µg/l on March 11, 2002 and 4.5 µg/l on August 26, 2002. No modification was made to the ISEP system. Perchlorate has not been detected in any weekly treated water sample since October 2002.

Nitrate was also removed from the raw water by ISEP. Weekly samples for Nitrate analysis were collected at SP-4, as shown on Plate 2. Between March 1, 2002 and April 30, 2003, Nitrate was detected above the laboratory RL of 0.2 mg/l several times, but was never detected above the DLR of 2 mg/l in the treated water, as shown on Table 9. The average Nitrate concentration in the raw water at Well No. 2 and Well No. 3 are 18.5 mg/l and 26.4 mg/l, respectively and approximately 99.4 percent of Nitrate is removed from raw water by ISEP.

Evaluate Sensitivity of Monitoring Program

The Treatment Facility was designed to treat contaminants at their historic highest concentrations to non-detectable levels. As shown on Table 10, from March 1, 2002 to April 30, 2003, Perchlorate was never detected above the historic highest concentration at both Wells No. 2 and No. 3. In addition, the raw water Perchlorate concentration appears to decrease over the year and the recent raw water Perchlorate concentrations are less than fifty percent of the historic high. Therefore, weekly monitoring appears to be adequate for detection and removal of Perchlorate.

As shown on Table 10, between March 1, 2002 and April 30, 2003, Nitrate was never detected above the historic high at both Wells No. 2 and No. 3. As shown on Figure 9, Nitrate concentration remained stable at about 20 mg/l at Well No. 2 and 25 mg/l at Well No. 3. In addition, the treated water Nitrate concentrations have been consistently below the DLR. Therefore, weekly monitoring appears to be adequate for detection and removal of Nitrate.

Operational Problems

1) Turntable Misalignment

ISEP turntable was misaligned several times between March 1, 2002 and April 30, 2003 due to the wear and tear of the rotating devices as the result of continuous operation. On April 23, 2002 the Treatment Facility was taken out of service for 48 hours to fix the encoder on the turntable. On May 22, 2002 the Treatment Facility was taken out of service for 36 hours to replace the faulty encoder. On June 5, 2002 the Treatment Facility was taken out of service for 96 hours to tighten up the ISEP turn table timing belt and on June 14, 2002 the Treatment Facility was taken out of service for 72 hours to replace the ISEP turntable timing belt. In November 2002 the Treatment Facility was taken out of service for 48 hours to rebuild the turntable pulley. During the time when the Treatment Facility was shutdown for maintenance longer than 8 hours, LPVCWD

purchased potable water from either San Gabriel Valley Water Company (SGVWC) or Rowland Water District (RWD).

2) Brine Line Blockage

The Treatment Facility was taken out of service on April 23, 2002 because of the blockage caused by scaling at the effluent ports of ISEP vessels No. 25, 26 and 27 and the waste brine piping. LPVCWD replaced each of the three ports and 30 feet of piping between the effluent ports and the waste brine filter. The Treatment Facility was out of service for 48 hours. During that period of time LPVCWD purchased potable water from either SGVWC or RWD.

The Treatment Facility was again taken out of service on December 3, 2002 because of scaling in the waste brine line. Calcium Carbonate deposit sealed off the entire cross section of the waste brine line. With the assistance from a contractor, LPVCWD cleaned the waste brine line by injecting a 31 percent Hydrochloric Acid (HCl) solution at the waste brine pump station. The County Sanitation District's sewer receiving station was closed to keep the acid recirculating between the waste brine pump station and the sewer receiving station to dissolve the Calcium Carbonate precipitate. The scaling in the waste brine line was adequately removed after about two weeks of acid wash and the Treatment Facility returned to service on December 22, 2002. During the time when the Treatment Facility was out of service LPVCWD purchased potable water from either SGVWC or RWD.

Calgon Carbon Cooperation (Calgon) was requested by the BPOU Project Committee to provide solutions to the waste brine line blockage at LPVCWD. Calgon identified an anti-scaling agent to prevent scaling in the waste brine line. However, due to the high cost of the anti-scaling agent, this option was not implemented. Calgon also proposed to relocate the acid injection point from the combined effluent of ports 25 to 27 on the ISEP module to the regeneration advance tank to reducing the scaling forming potential. However, because of the concern of potential acid carry over into the treated water, DHS requested that pilot study data be provided before the change of the acid injection point will be considered. Currently Calgon is conducting that pilot study at the LPVCWD Treatment Facility. Calgon has also proposed reducing the rotation speed of the ISEP turntable to allow more of the Bicarbonate to pass through the ISEP resin. As a result, less Bicarbonate would be available to form Calcium Carbonate precipitation in the waste brine and waste brine blockage caused by scaling may be reduced.

3) Red Water

LPVCWD had received red water complaints from its customers many times since the beginning of the operation of the Treatment Facility. ISEP

removes Perchlorate in the raw water along with Carbonate and Bicarbonate. As a result, the treated water pH is lower and is more corrosive. Because the distribution system of LPVCWD consists mostly of galvanized steel pipeline, the red water complaints appear to be the result of galvanized steel pipeline corrosion.

McGuire Environmental Consultants, Inc. (McGuire) recommended adding between 6 mg/l to 15 mg/l of caustic soda (Sodium Hydroxide) to the treated water to raise the pH value as the first step to resolve the red water issue. LPVCWD installed a 94 gallon per day (gpd) variable speed pump and a 900 gallon Sodium Hydroxide storage tank at the Treatment Facility and began injecting a 50 percent Sodium Hydroxide solution to the treated water in August 2001. The Sodium Hydroxide solution is NSF approved. The NSF certification and the Material Safety Data Sheet is included in Appendix C.

Customer complaints decreased following the addition of Sodium Hydroxide but continued periodically. Subsequently, McGuire recommended injecting a 15 percent Orthophosphate and 85 percent Polyphosphate blend at a dosage of 4 mg/l to further reduce or eliminate corrosion. LPVCWD installed a 45 gpd variable speed pump and began injecting the Ortho/Poly Phosphate blend to the treated water at Hudson Reservoir on May 15, 2002. The Ortho/Poly phosphate blend is also NSF approved. The NSF certification and the Material Safety Data Sheet is included in Appendix D.

Water quality analyses results for samples collected in the distribution system show that the concentration of iron has reduced from over 1,000 µg/l to below 20 µg/l following the addition of the Ortho/Poly Phosphate blend. In addition, there has not been any customer complaints regarding red water since August 2002. Therefore, the addition of Sodium Hydroxide and Poly/Ortho Phosphate blend appear to be effective in controlling red water. The draft Technical Memorandum prepared by McGuire regarding the red water problem at LPVCWD and McGuire's recommendation is included as Appendix E.

NDMA; 1,4-Dioxane Treatment Facility (Rayox and UVTerra)

Summary of Design Parameters

The Rayox modules consist of two towers in series and a process control system. Each tower contains 12 Ultraviolet (UV) lamps. Each lamp is contained in a quartz sleeve which is kept clean by an automated sleeve cleaner. Destruction of 1,4-dioxane requires the addition of hydrogen peroxide, which forms hydroxyl radicals in water. Under the influence of UV light, the hydroxyl radicals oxidize 1,4-dioxane. NDMA is destroyed by direct photolysis when exposed to UV light. The Rayox module

is designed to treat NDMA up to 900 ng/l to non-detectable levels. Rayox was in operation from March 1, 2002 to May 27, 2002.

The UVTerra system consists of two reactor modules running in parallel and a process control system. Each UVTerra reactor contains a total of six rotational units and one additional unit for future expansion. Each rotational unit consists of a 4-lamp by 16-lamp non-staggered array of UV lamps. Therefore each reactor contains 384 UV lamps. Destruction of 1,4-dioxane requires the addition of hydrogen peroxide, which forms hydroxyl radicals in water. Under the influence of UV light, the hydroxyl radicals oxidize 1,4-dioxane. NDMA is destroyed by direct photolysis when exposed to UV light and is also enhanced by the addition of hydrogen peroxide. Based on a full-scale demonstration test conducted in November 2001, Trojan recommended each of the two reactor may treat up to 1,250 gpm of flow with four rotational units turned-on. This configuration can treat NDMA and 1,4-Dioxane from up to 1,500 ng/l and 3.4 µg/l, respectively, to non-detectable levels with about 2.5 mg/l of hydrogen peroxide. UVTerra was in operation from June 10, 2002 to April 30, 2003.

Operational Modifications

During late May 2002 to early June 2003, LPVCWD transitioned the NDMA and 1,4-Dioxane treatment from Rayox to UVTerra. The transition look seven days to complete while the Treatment Facility was shutdown. As shown on Table 11, a saving in energy expense of $40 per acre-foot of water treated was realized after switching over from Rayox to UVTerra.

Number of Lamps Used

Rayox was used to treat NDMA and 1,4-Dioxane between March 2002 and May 2002 and a total of 16 lamps were illuminated at all times while the Treatment Facility was in operation. UVTerra was used to treat NDMA and 1,4-Dioxane between June 2002 to April 2003 and 4 rotational units (banks) in each reactor were illuminated at all time while the Treatment Facility was in operation.

Summary of Treated Water Quality Results

Treated water samples were collected on a weekly basis for 1,4-Dioxane at SP-6, as shown on Plate 2. Between March 1, 2002 and April 30, 2003, 1,4-Dioxane was detected above the laboratory RL of 0.5 µg/l in the treated water on five occasions. All of the results are below the AL and DLR of 3 µg/l, as shown on Table 7 and Figure 7.

Treated water samples were collected on a weekly basis for NDMA at SP-6, as shown on Plate 2. Between March 1, 2002 and April 30, 2003, NDMA was detected above the laboratory RL of 1 ng/l in the treated water on nine occasions, three of which are detected above the DLR of 2 ng/l. All of the results are below the AL for NDMA at 10 ng/l, as shown on Table 8 and Figure 8.

Evaluate Sensitivity of Monitoring Program

The Treatment Facility was designed to treat contaminants at their historic highest concentrations to non-detectable levels. Although between March 1, 2002 and April 30, 2003, 1,4-Dioxane was detected above the historic high at Well No. 3 as shown on Table 10, 1,4-Dioxane was not detected in the treated water on the same day, as shown on Table 7. In addition, although 1,4-Dioxane was detected above the laboratory RL occasionally in the treated water, the concentration has never exceeded the DLR. Therefore weekly monitoring appears to be adequate for the detection and removal of 1,4-Dioxane.

NDMA was not detected above the historic highest concentration at both Wells No. 2 and No. 3 between March 1, 2002 and April 30, 2003, as shown on Table 10. Although NDMA was detected above the DLR on three non-consecutive events, the concentrations never exceeded the AL. Therefore weekly monitoring appears to be adequate for the detection and removal of NDMA.

Operational Problems

On August 29, 2002, a faulty signal indicated not enough rotational units was available for the operation of UVTerra shutdown the Treatment Facility automatically. LPVCWD contacted Trojan to resolve the problem. It was determined to be a programming error of UVTerra's control system. The UVTerra control board was re-installed and the Treatment Facility returned to service after 21 hours. During that time LPVCWD purchased potable water from either SGVWC or RWD.

Special Water Quality Monitoring Results

Upgradient Monitoring Wells

Permit provision number 28 requires LPVCWD to collected annual samples at upgradient monitoring wells to provide early detection of any new constituents or significant changes of previously identified compound that may affect LPVCWD wellfield. The upgradient wells include SGVWC Well B6C and Valley County Water District (VCWD) Big Dalton Well. SGVWC Well B6C is currently inactive. A water quality sample was not collected at SGVWC Well B6C because the SGVWC B6 treatment facility is not yet operational. However, it is anticipated SGVWC Plant B6 treatment facility will begin startup testing around the fall of 2003. VCWD Big Dalton well is also inactive. A water quality sample was not be collected at VCWD Big Dalton well because of the inability to discharge contaminated water.

Permit provision number 28 requires LPVCWD to identify monitoring well replacement if any of the special monitoring well is not available. Environmental Protection Agency (EPA) multi-port monitoring wells MW 5-01 and MW 5-05 are upgradient of the Treatment Facility, as shown on Plate 1. Raw water samples at MW 5-01 and MW 5-05 were collected in April and May 2002 and were analyzed for VOCs, Perchlorate, NDMA and 1,4-Dioxane. The results of the testing are shown in Appendix

F. The water quality results indicate that no new compound, other than those compounds addressed in the DHS Policy Memo 97-005 report, were detected. Although PCE and TCE concentrations were detected in excess of design concentrations at MW 5-05, the samples were collected from monitoring ports which are screened over ten-foot intervals. Therefore, these water quality samples are not indicative of concentrations that will occur from an extraction well that is perforated over several hundred feet. LPVCWD will continue to evaluate EPA monitoring well data in addition to water quality from SGVWC B6C Well and VCWD Big Dalton Well when they become available for sampling.

Full Water Quality Characteristics Analysis

Both raw and treated water samples were collected at LPVCWD Treatment Facility on December 27, 2002 for the annual special monitoring requirements. The samples were analyzed for Perchlorate, NDMA, 1,4-Dioxane, VOCs, Nitrate, general physical, general mineral, full metals scan, Chromium VI, Nitroaromatics and nitroamines, gross alpha/beta and Synthetic Organic Compounds (SOCs). EPA methods 524.2 and 8270C were used to analyze VOCs and semi-volatile organic chemicals. The laboratory was instructed to report any uncalibrated peaks on the chromatograph of the EPA methods 524.2 and 8270C analyses. The test results are discussed below.

The laboratory analysis results of the raw water collected at Well No. 3 indicated no new compound, other than those compounds addressed in the DHS Policy Memo 97-005 report, were detected at Well No. 3.

The laboratory analysis results of the treated water collected at SP-6 indicated all the constituents in the treated water met all Federal and State Drinking Water Standards. A list of Tentatively Identified Compounds (TICs) detected in the treated water sample using EPA method 8270C analysis were reported by the laboratory, as shown in the water quality analysis report in Appendix G. None of the TICs were considered positively identified because of the poor matching quality. The treated water sample was also analyzed using more sensitive and selective methods for drinking water analyses, which include EPA methods 504.1, 507, 508, 515.3, 524.2, 525.2, 531.1, 547, 548.1 and 549.2. No compound was detected in the treated water when analyzed by these methods.

Copper, Lead, Tin and Thallium Analysis

During the last annual special monitoring on October 24, 2001, Lead, Copper, Tin and Thallium were detected in the treated water at 31 µg/l, 180 µg/l, 4.6 µg/l and 1.8 µg/l, respectively. None of these metals were detected in the raw water on the same day, except for copper, which was detected at 3.6 µg/l in the raw water. A sample of the stock hydrogen peroxide was analyzed for lead as the possible source of lead detected in the treated water. The result of lead in the stock hydrogen peroxide solution is 6.6 µg/l. The hydrogen peroxide solution is diluted more than 100,000 times when injected to the process water and therefore contribution of lead from the hydrogen peroxide is considered negligible.

In a letter dated September 2002, DHS required LPVCWD to collected two samples for Lead, Copper, Tin and Thallium analysis on a weekly basis, one at the treatment plant effluent and the other one at the customer's first service connection. LPVCWD initiated the weekly sampling for Lead, Copper, Tin and Thallium at SP-6 and at Hudson Reservoir in October 2002 and the results are shown in Table 12, 13, 14 and 15, respectively. The results for Lead and Copper are also shown in Figures 10 and 11.

Between October 2002 and April 2003, Lead was detected only once at SP-6 and at the Hudson Reservoir on the same day in November 2002. The concentrations were below the AL for Lead of 15 µg/l as shown in Table 12 and Figure 10. Copper was detected several times at SP-6 and at Hudson Reservoir at concentrations ranging from non-detect to 79 µg/l, as shown on Table 13. The concentration are below the AL for copper at 1,300 µg/l. As shown on Tables 14 and 15, Tin and Thallium have not been detected at SP-6 and at Hudson Reservoir since the beginning of weekly sampling in October 2002. It is suspected that the sporadic detection of Lead and Copper may come from the brass sampling tap which contains Lead and Copper.

LPVCWD collected Lead and Copper samples in the distribution system in accordance with the Lead and Copper Rule in September 2002. The 90th percentile concentrations for Lead and Copper detected in the distribution system are 9.8 µg/l and 67 µg/l, respectively, which are less the ALs for Lead and Copper. Therefore LPVCWD is in compliance with the Lead and Copper Rule.

Conclusions

Between March 1, 2002 and April 30, 2003, LPVCWD Treatment Facility has been successful in removing 100 percent of the VOCs (TCE, PCE, CTC, 1,2-DCA) at all times. Perchlorate has been treated to below the DLR and AL of 4 µg/l, except in March 2002 and August 2002, when Perchlorate was detected in the treated water at 4.1 µg/l and 4.5 µg/l, respectively. NDMA and 1,4-Dioxane were occasionally detected in the treated water. However, the concentration never exceeded the ALs. Nitrate has been treated to below the DLR at all times. The weekly raw water sampling results indicate the concentrations of the contaminants had not increased at Well No. 2 and No. 3. Based on the annual sampling results, no new compound was discovered in the raw water at LPVCWD Well No. 3 or in upgradient EPA monitoring wells.

In late May to early June 2002, LPVCWD transitioned from Rayox to UVTerra for NDMA and 1,4-Dioxane treatment. An average savings of $ 40 per acre-foot of water treated in energy expense was realized after the transition.

Samples for Lead, Copper, Tin and Thallium analyses were collected from the treated water on a weekly basis starting October 2002. The weekly sampling results show that Lead was detected once in the treated water at SP-6 and at Hudson Reservoir in November 2002, but has not been detected since then. Copper was detected several times in the treated water. However the concentrations never exceed the AL. Tin and Thallium have not been detected in any of the weekly samples.

LPVCWD received red water complaints after the Treatment Facility started operation. The addition of sodium hydroxide and poly/ortho phosphate blend in the treated water appear to resolve the red water problem. The Treatment Facility was shutdown for almost three weeks because of waste brine line blockage. The Calcium Carbonate scaling in the waste brine line was successfully removed after about two weeks of an acid wash. In the mean time, Calgon is conducting a pilot study and the goal is to resolve the issues with red water and waste brine line blockage at the same time.

Recommendations

Raw water quality monitoring indicates contaminants of concern appear to be stable or generally decreasing in concentration. In addition, no new contaminants have been detected. Therefore, LPVCWD requests a meeting with DHS staff to discuss the frequency of future raw water quality monitoring.

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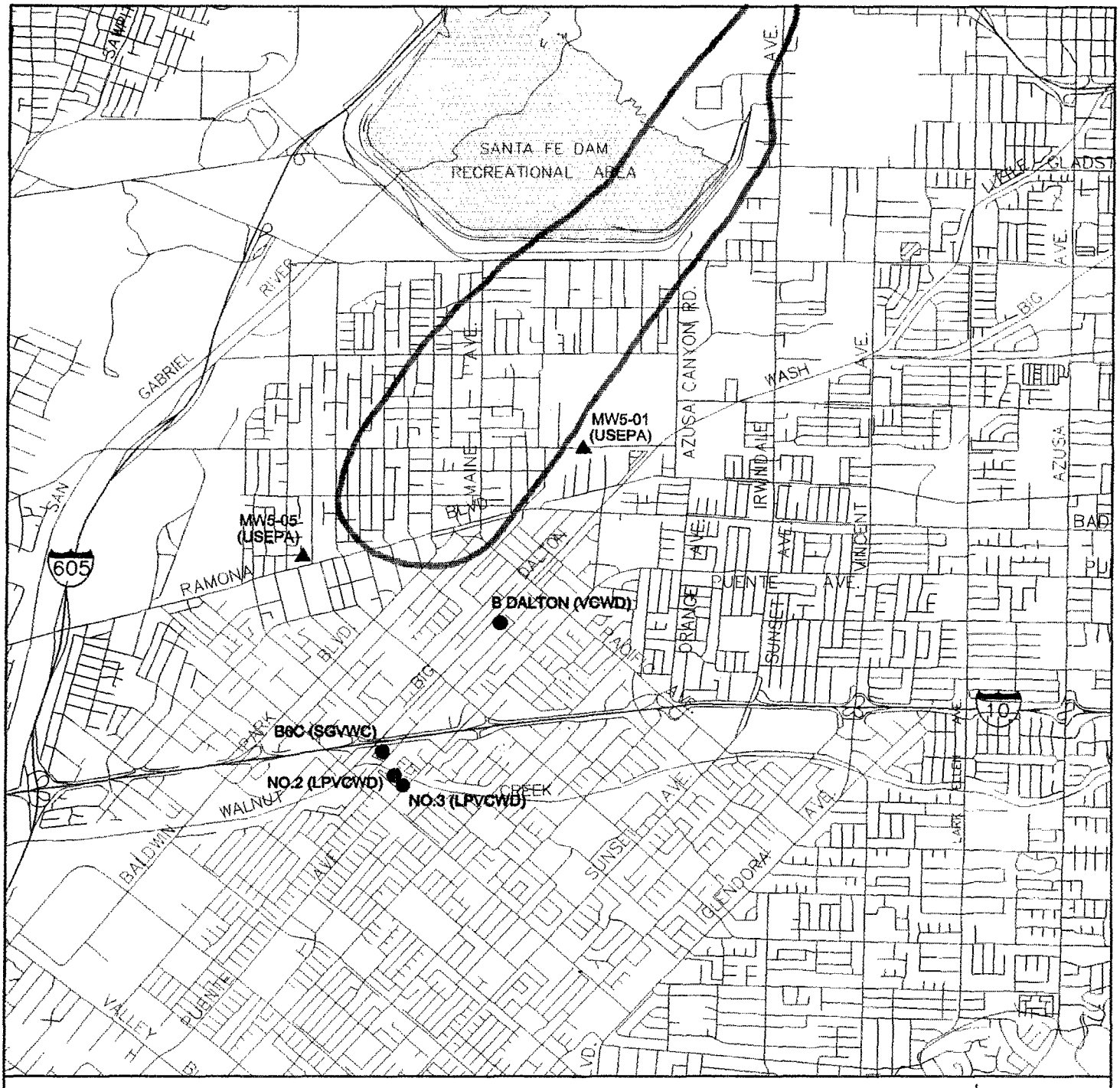
PLATE 1



LEGEND :

- ● WELL NAME (OWNER)
- ▲ MONITORING WELL
- BPOU BOUNDARY

BPOU	BALDWIN PARK OPERABLE UNIT
LPVCWD	LA PUENTE VALLEY COUNTY WATER DISTRICT
SGVWC	SAN GABRIEL VALLEY WATER COMPANY
USEPA	U.S. ENVIRONMENTAL PROTECTION AGENCY
VCWD	VALLEY COUNTY WATER DISTRICT

N

APPROXIMATE SCALE:
0 2,000' 4,000'

STETSON ENGINEERS INC.
3104 EAST GARVEY AVENUE
WEST COVINA, CALIFORNIA 91791
TEL: (626) 967-6202
FAX: (626) 331-7065

2171 E Francisco Blvd., Suite K
San Rafael California 94901

2851 W Guadalupe Rd., Suite A209
Mesa Arizona 85202

LA PUENTE VALLEY COUNTY WATER DISTRICT

LOCATION MAP
LPVCWD TREATMENT FACILITY

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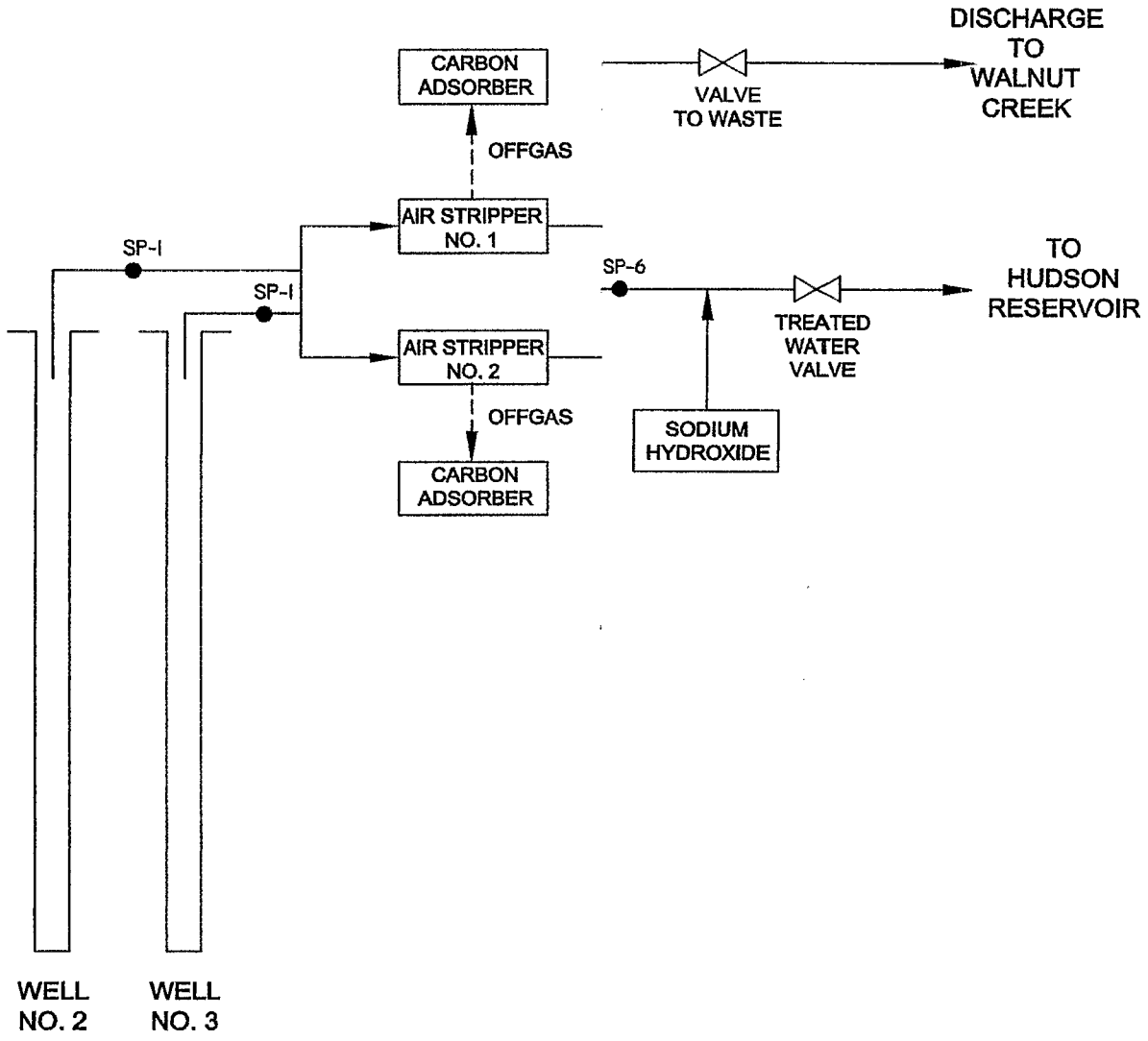
E:\JOBS\1960\1960-04\TechPerformaceRpt02-02\PLATE _1.PC2



NOTE: RECONFIGURATION FROM RayOx TO UV

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DISTRICT

AGRAM

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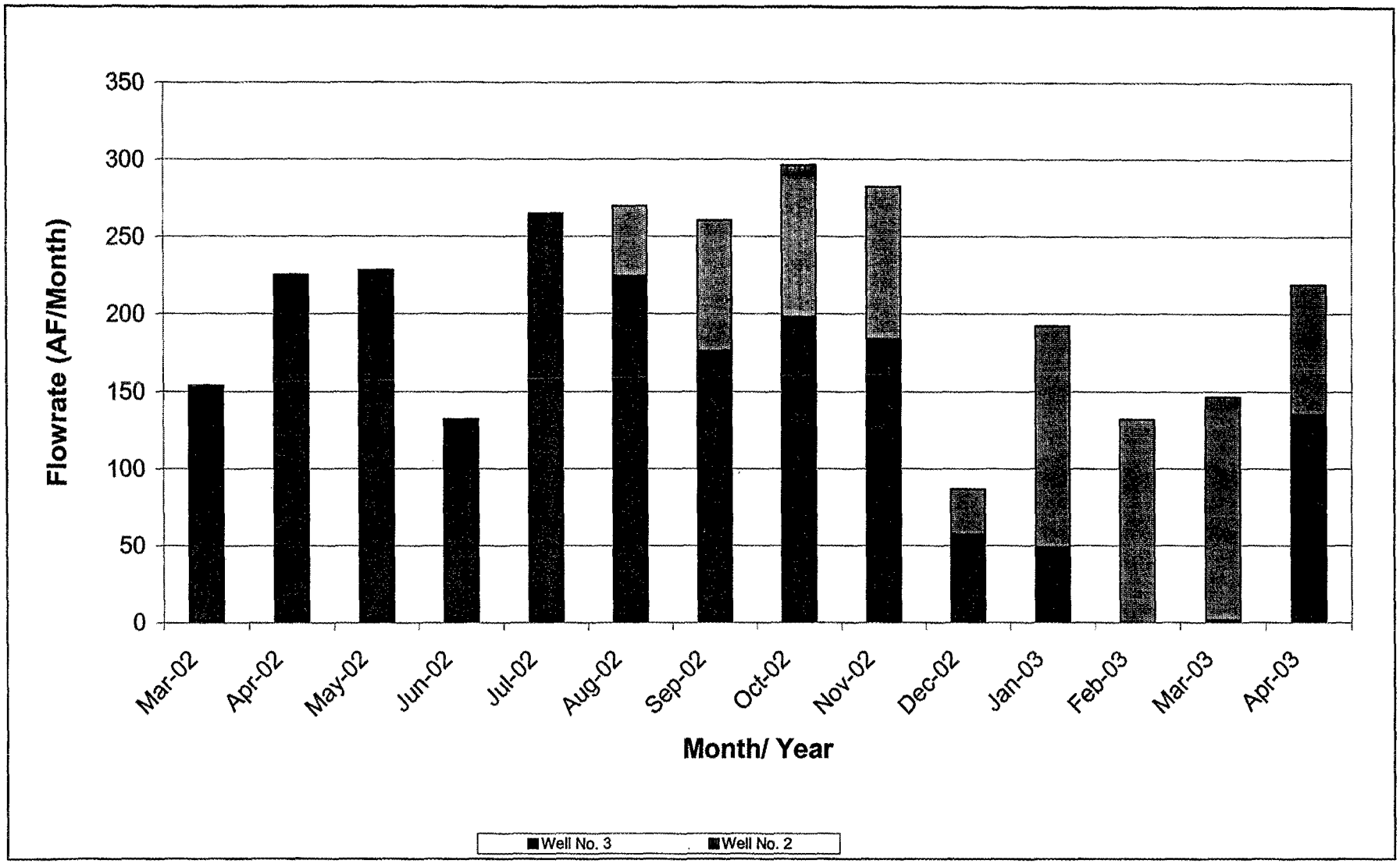


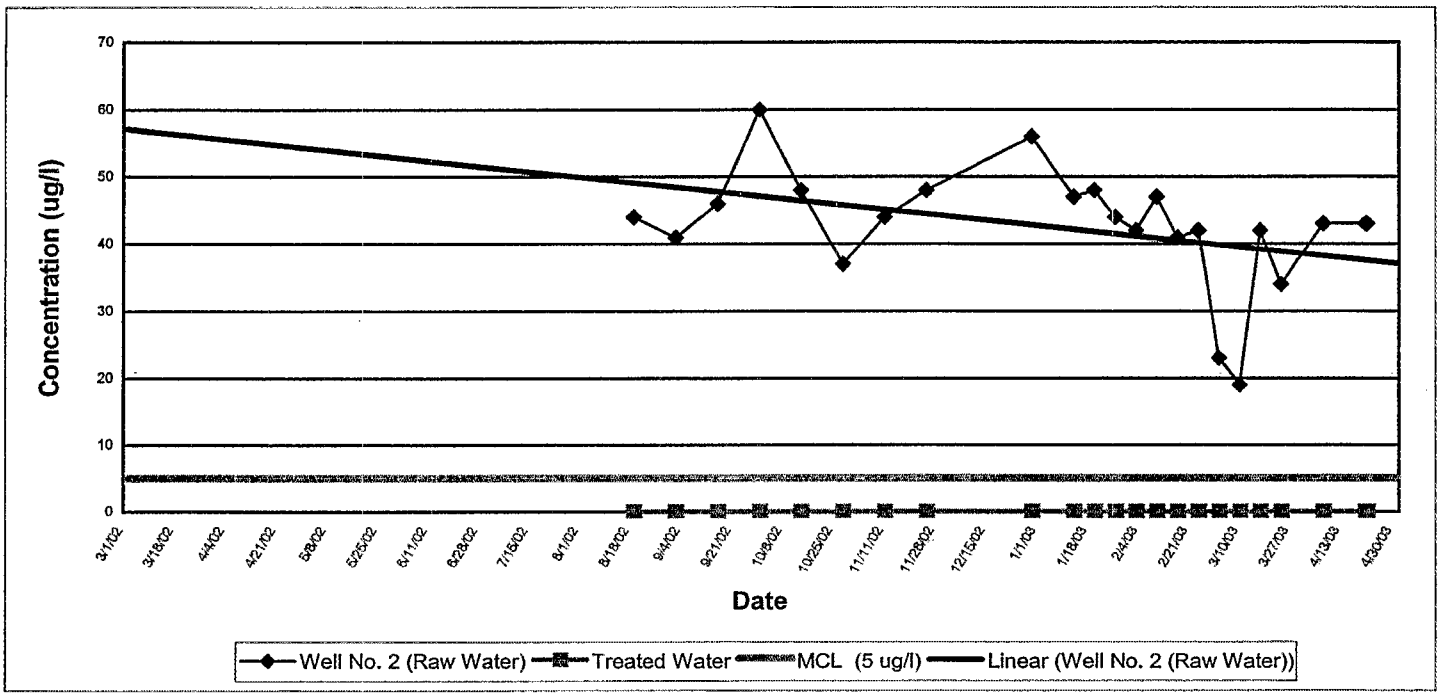
STETSON ENGINEERS INC.
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

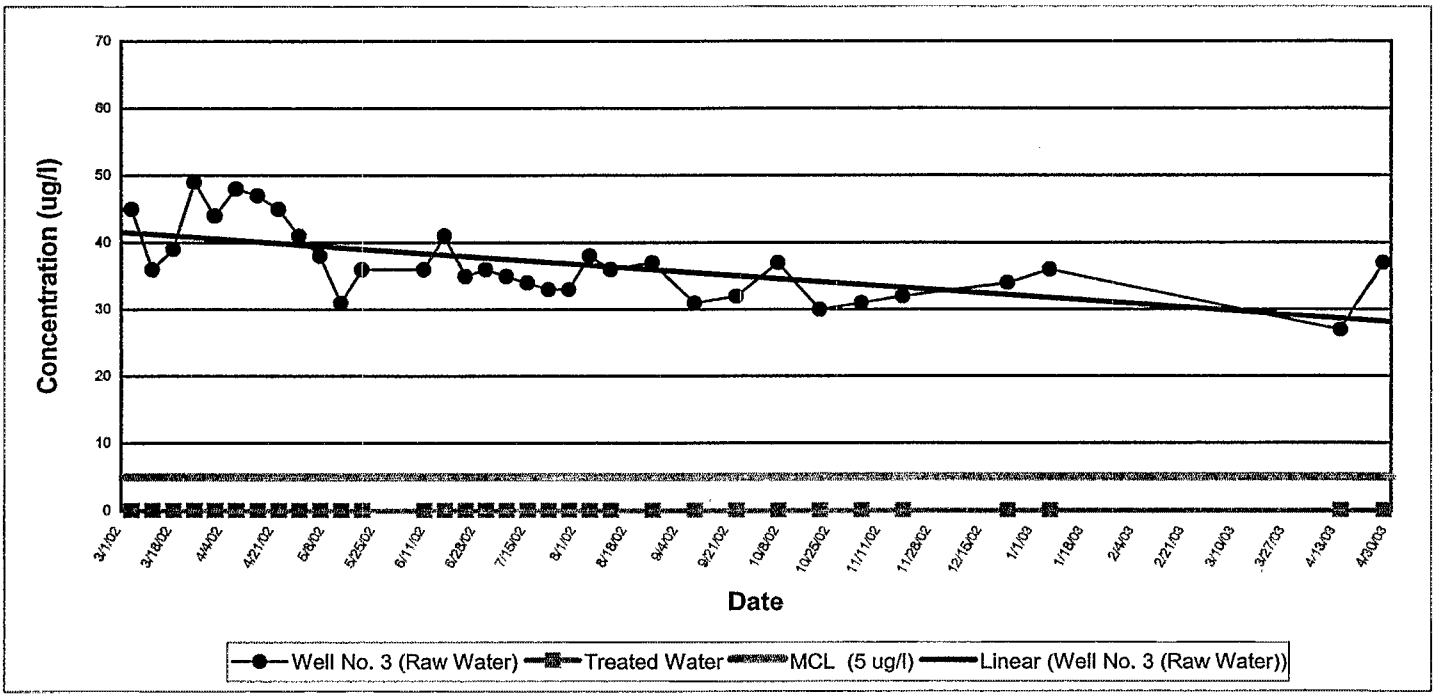
LA PUENTE VALLEY COUNTY WATER DISTRICT

MONTHLY PRODUCTION FOR WELL NO. 2 AND NO. 3 AT LPVCWD TREATMENT FACILITY

FIGURE 1

FIGURE 2





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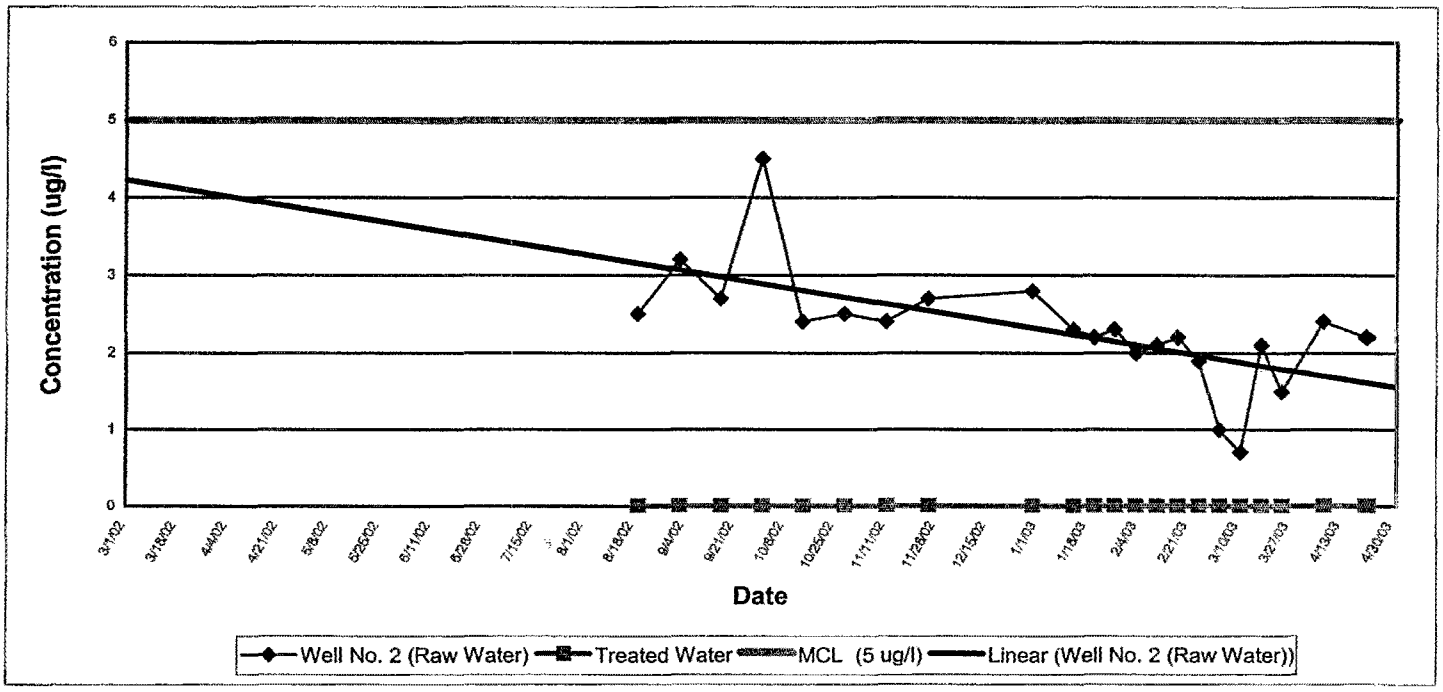
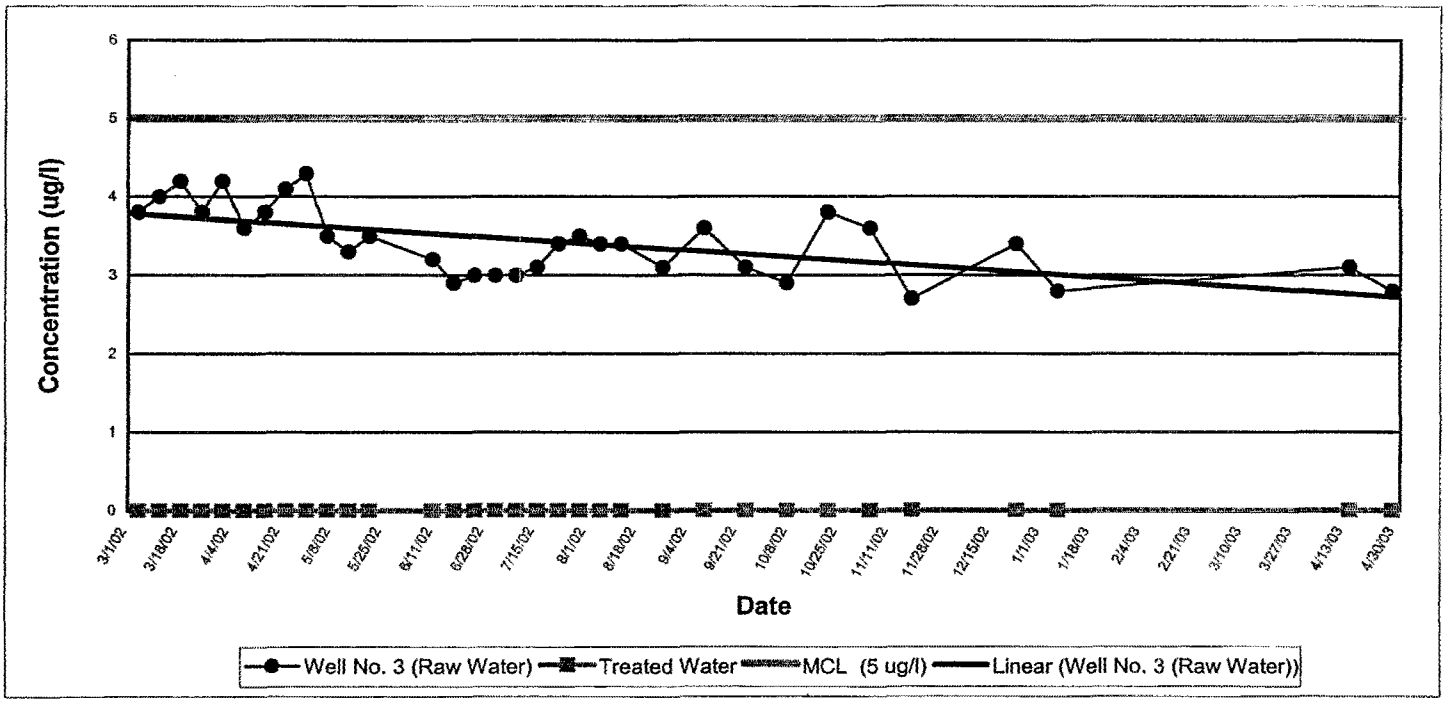
LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
TCE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 3





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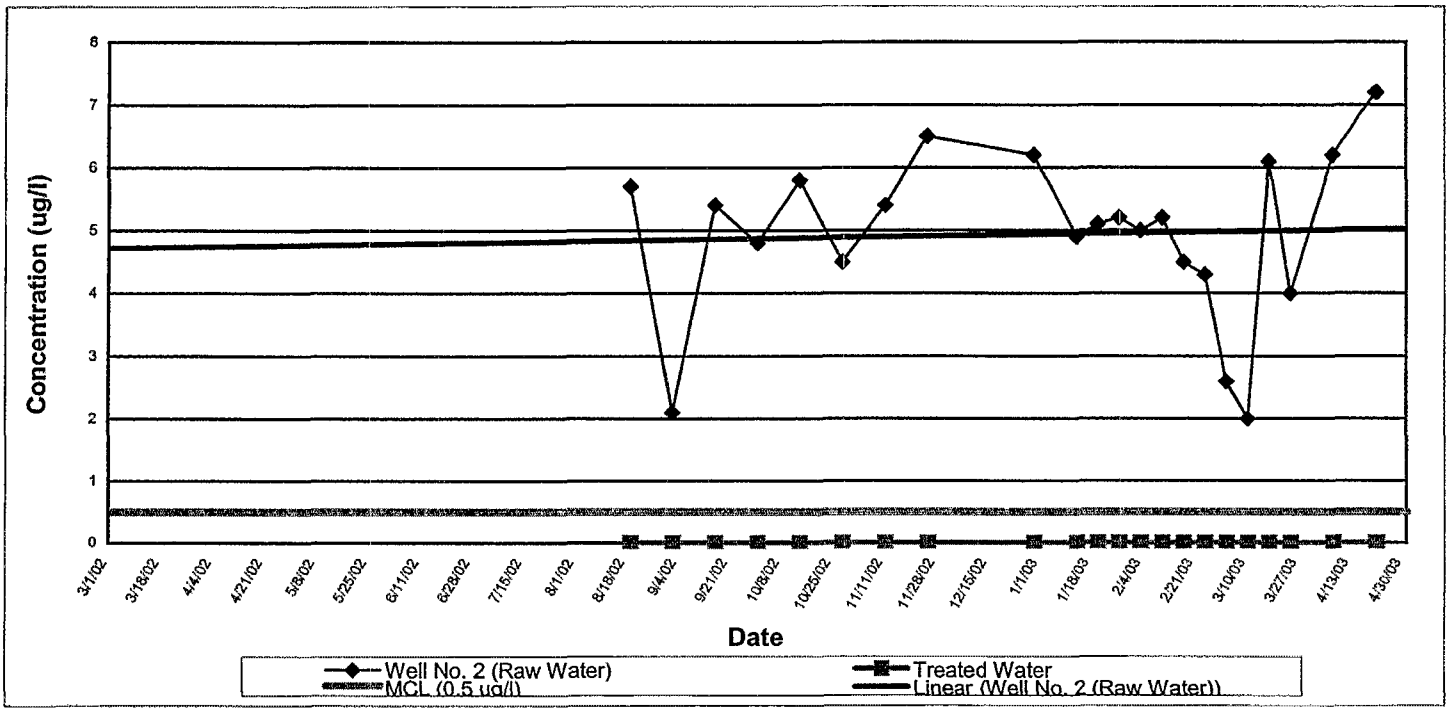
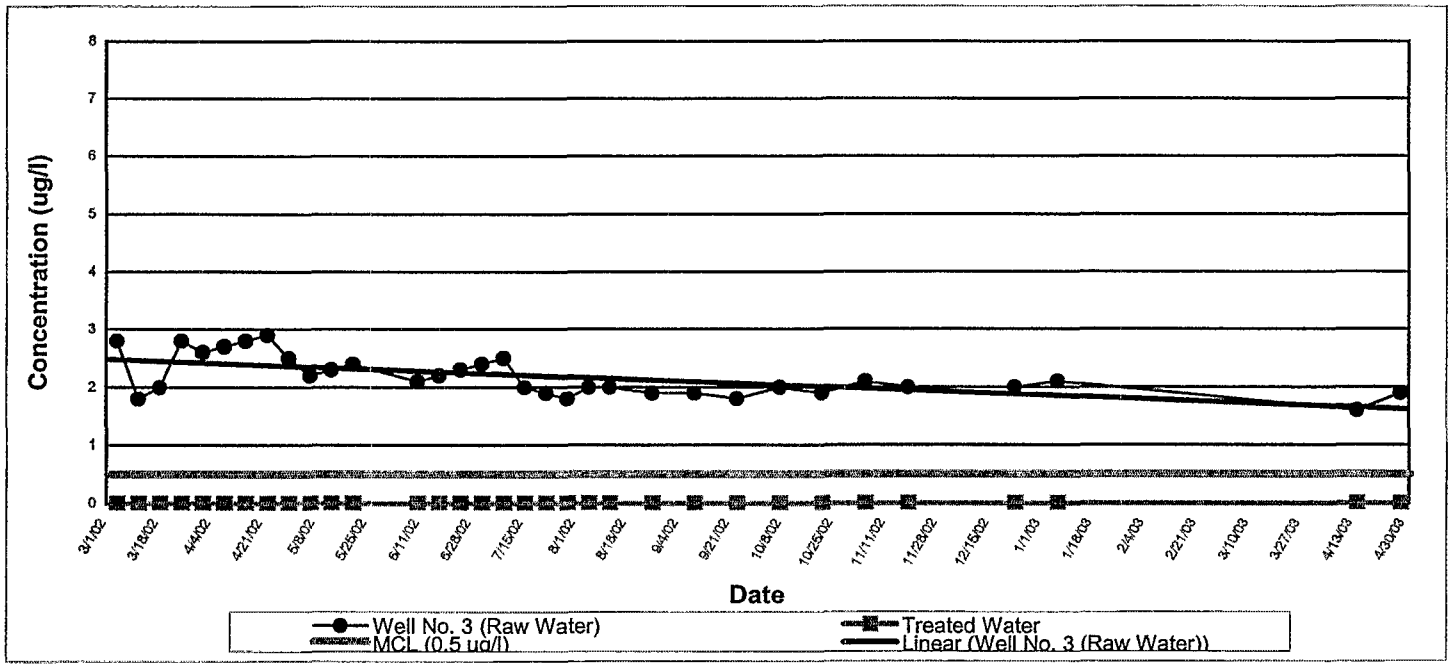
LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
PCE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 4





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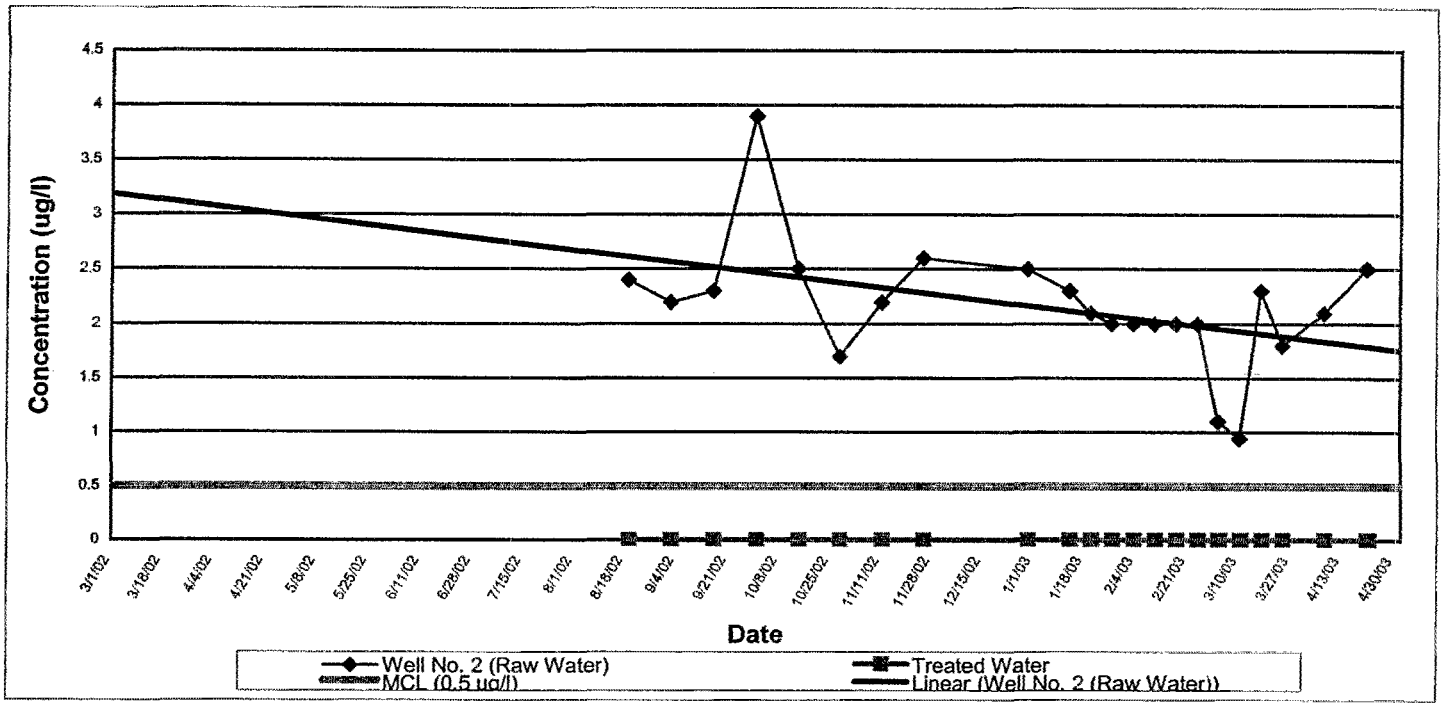
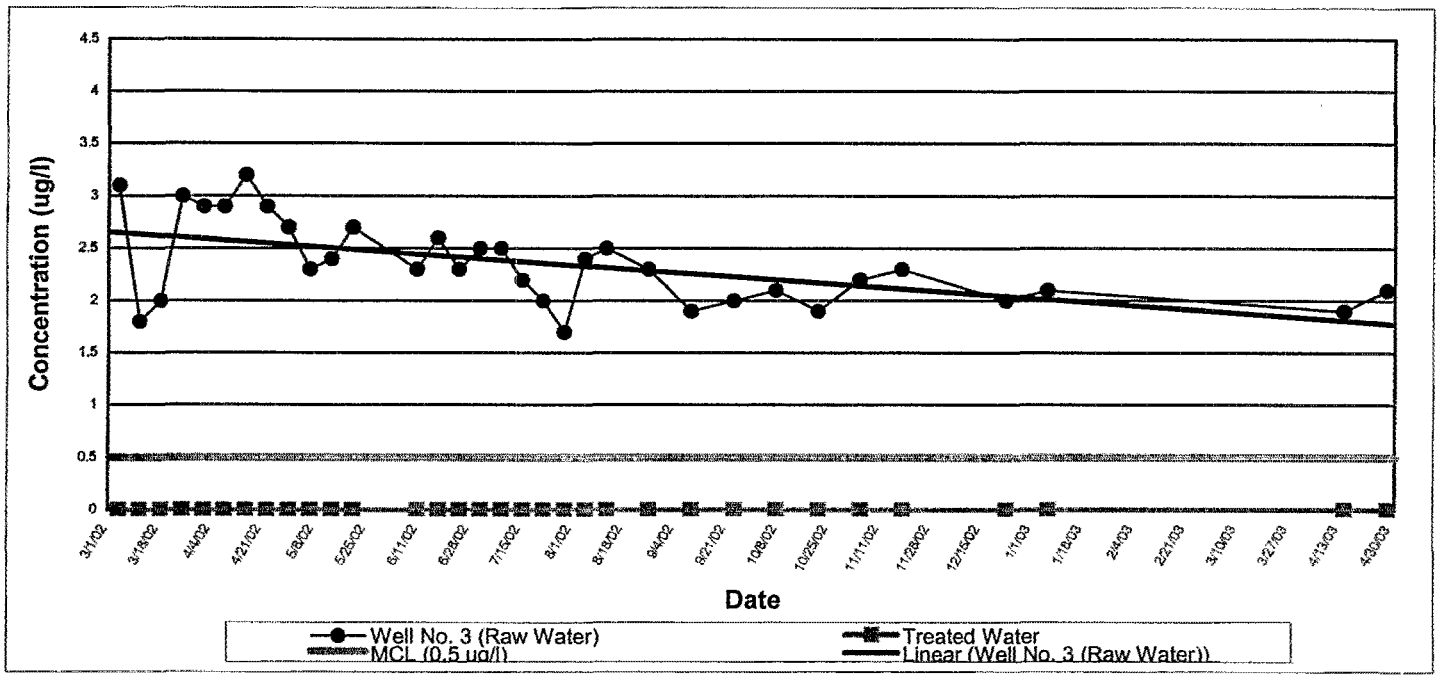
LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
CTC CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 5





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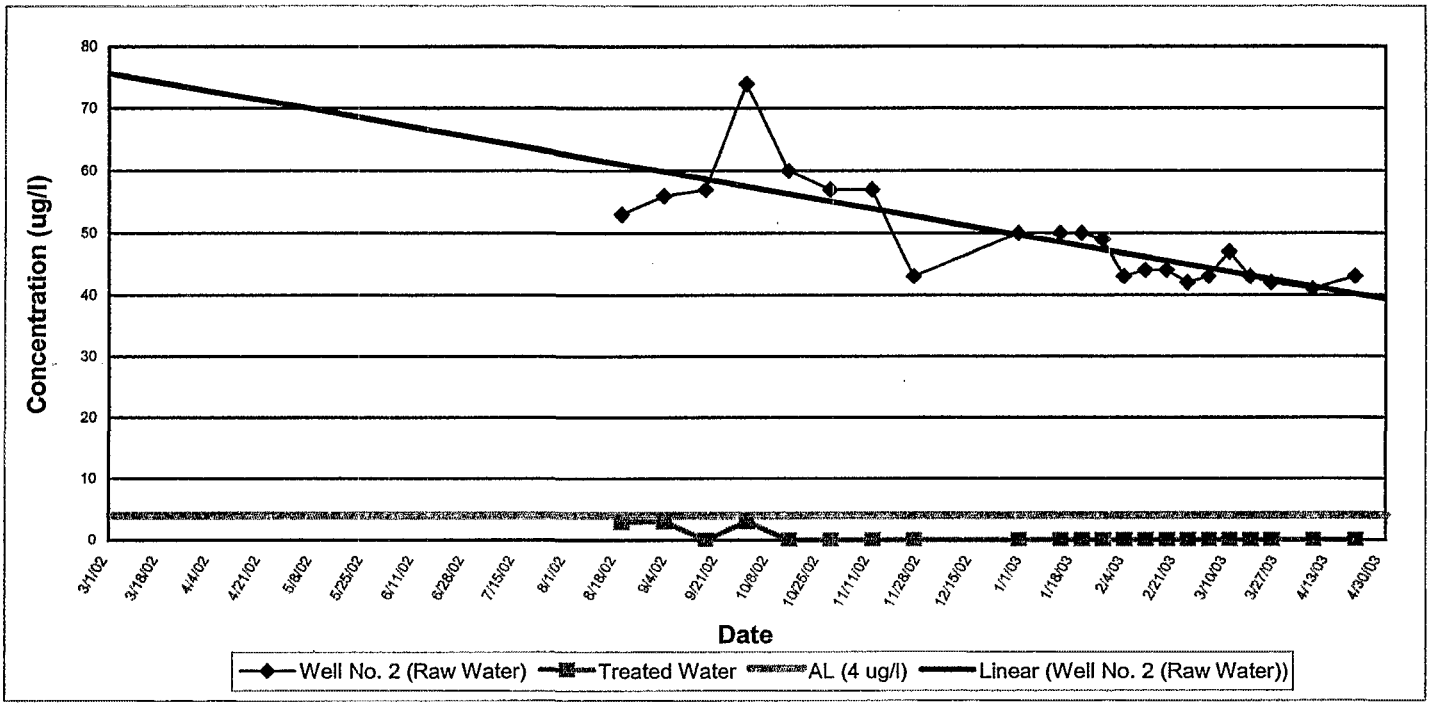
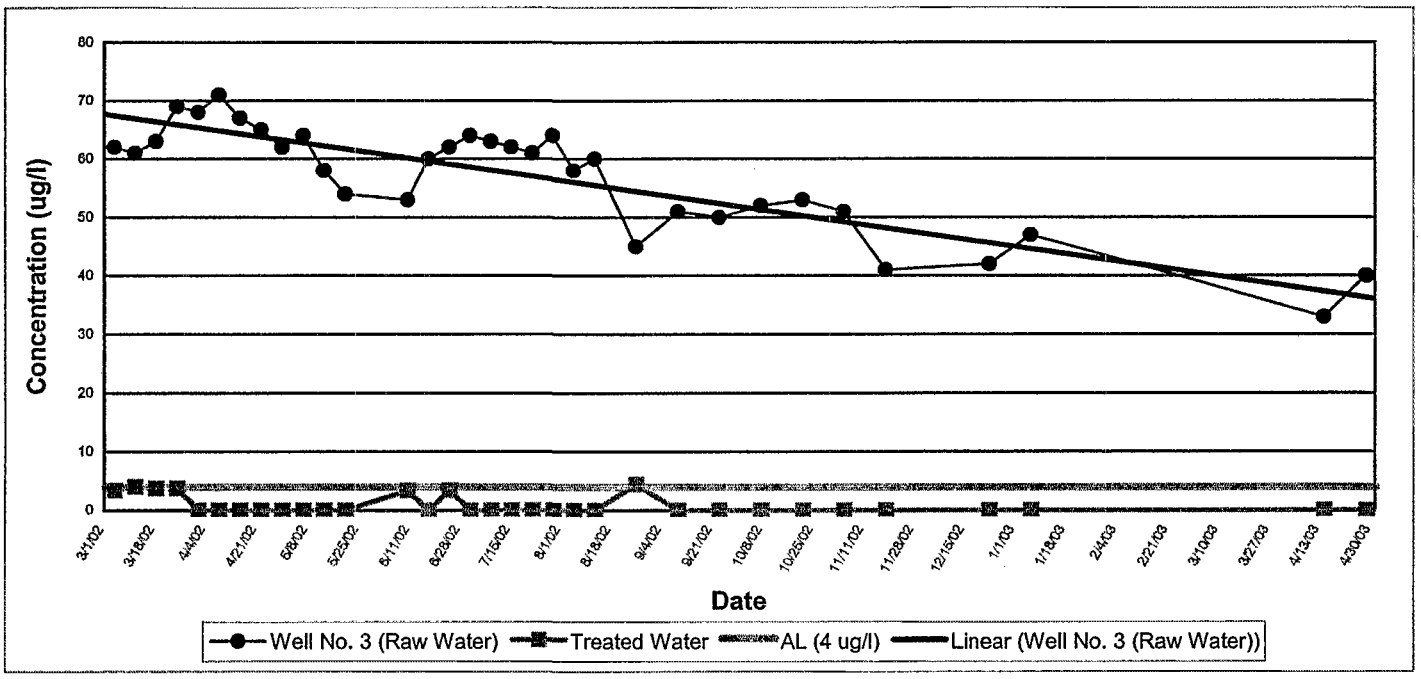
LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
1,2-DCA CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 6





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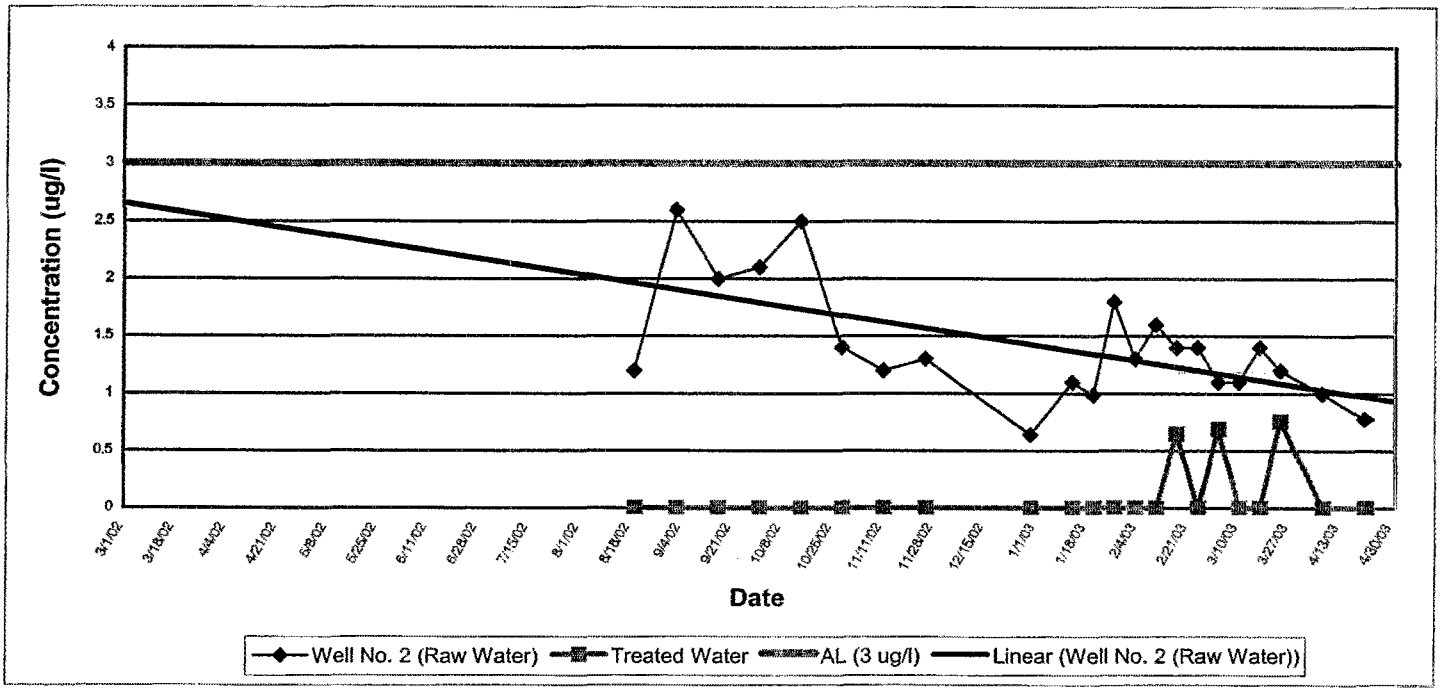
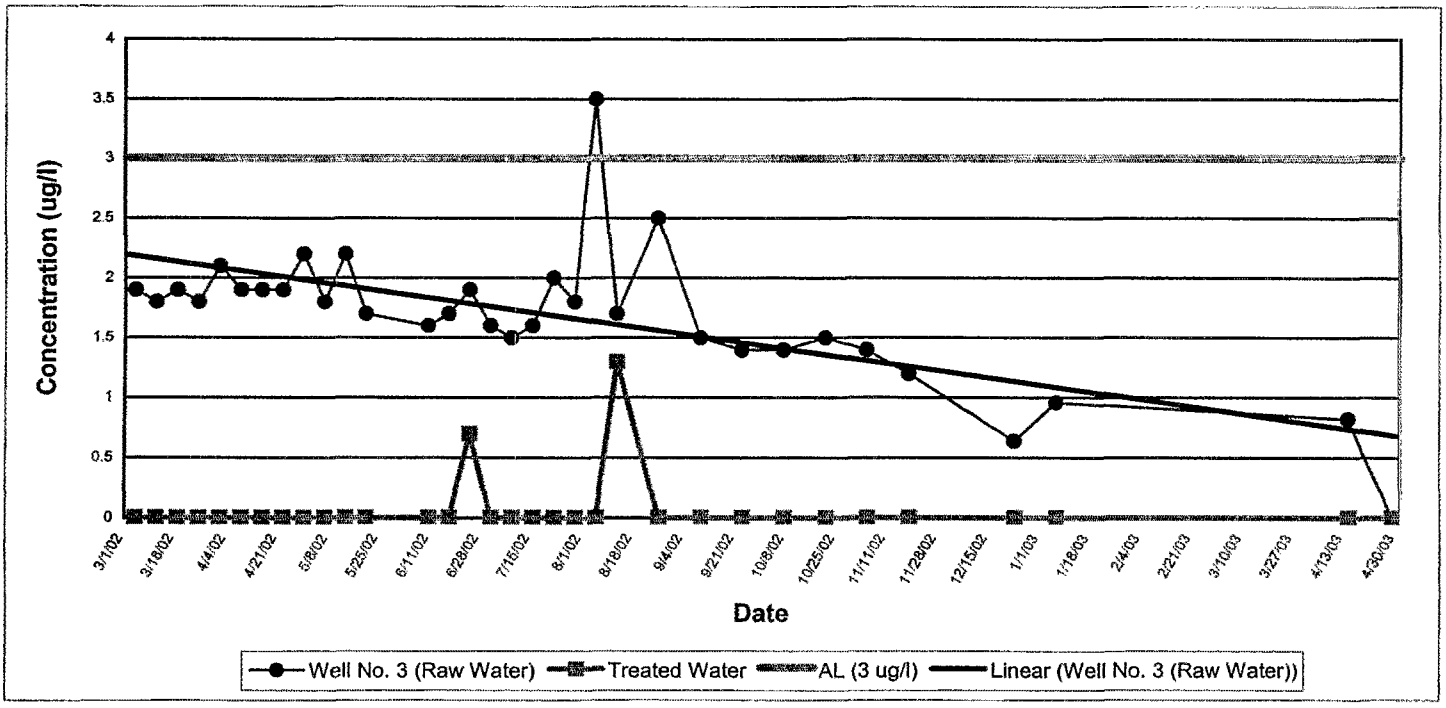
LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
PERCHLORATE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 7





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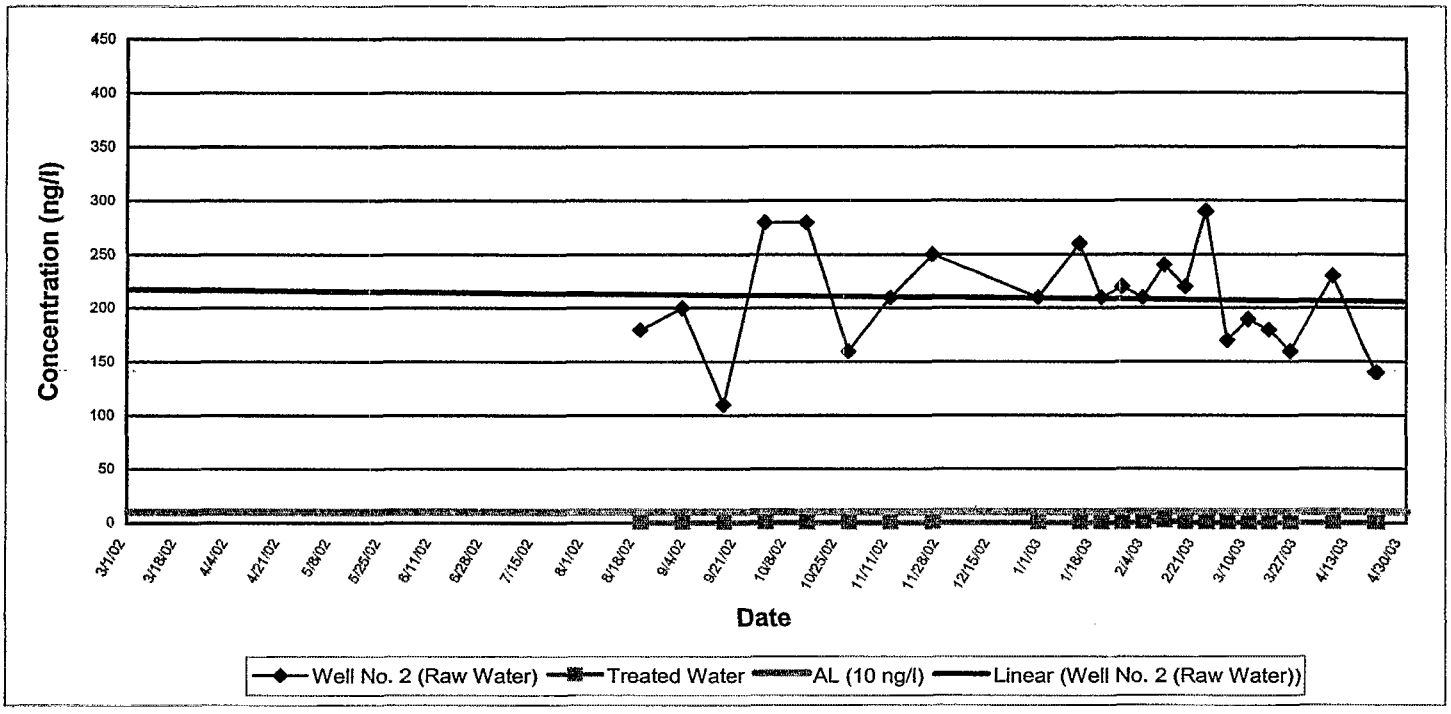
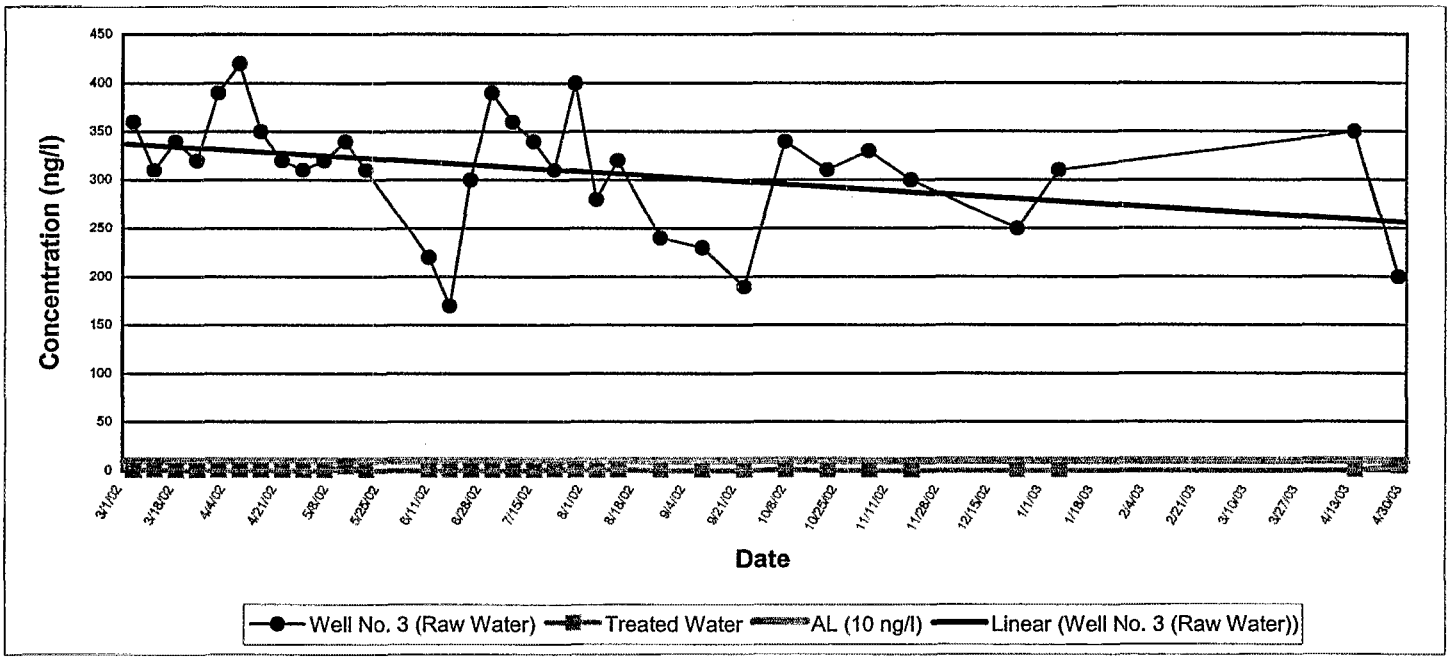
LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
1,4-DIOXANE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 8





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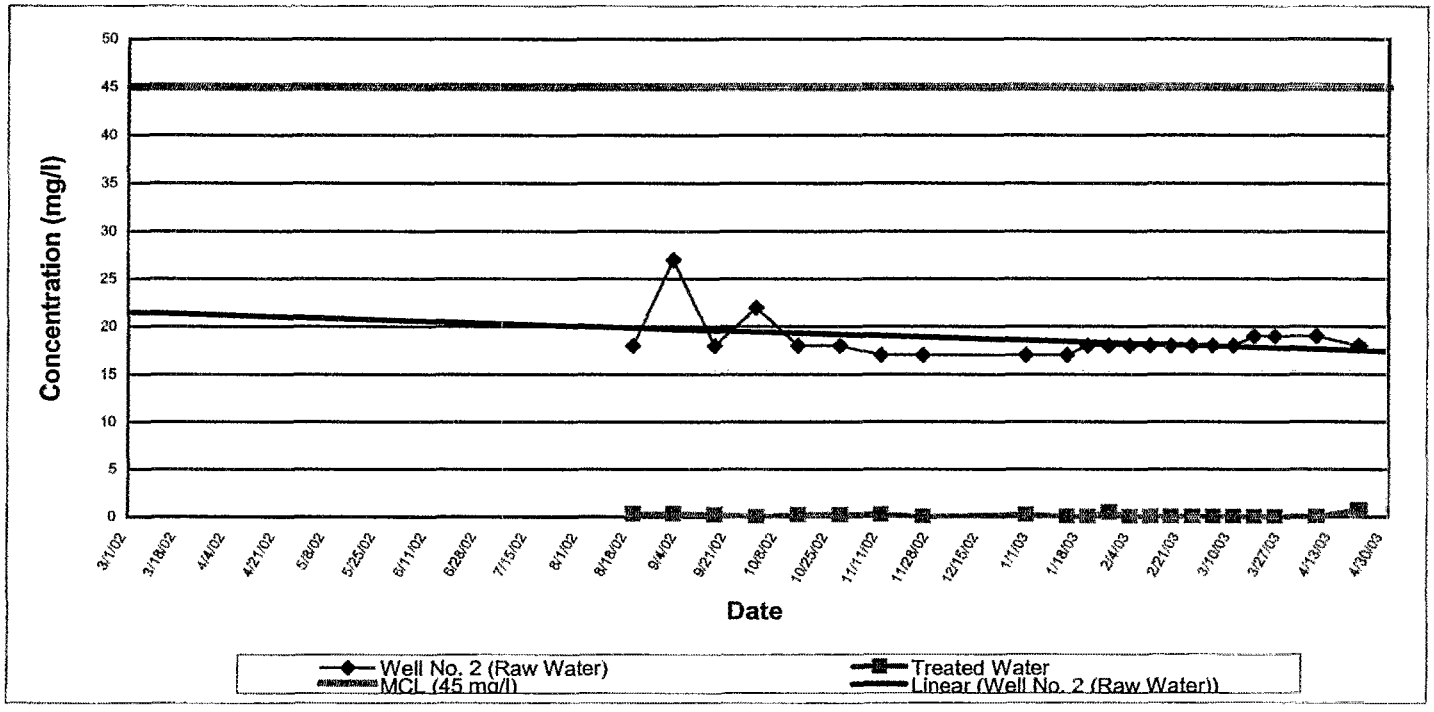
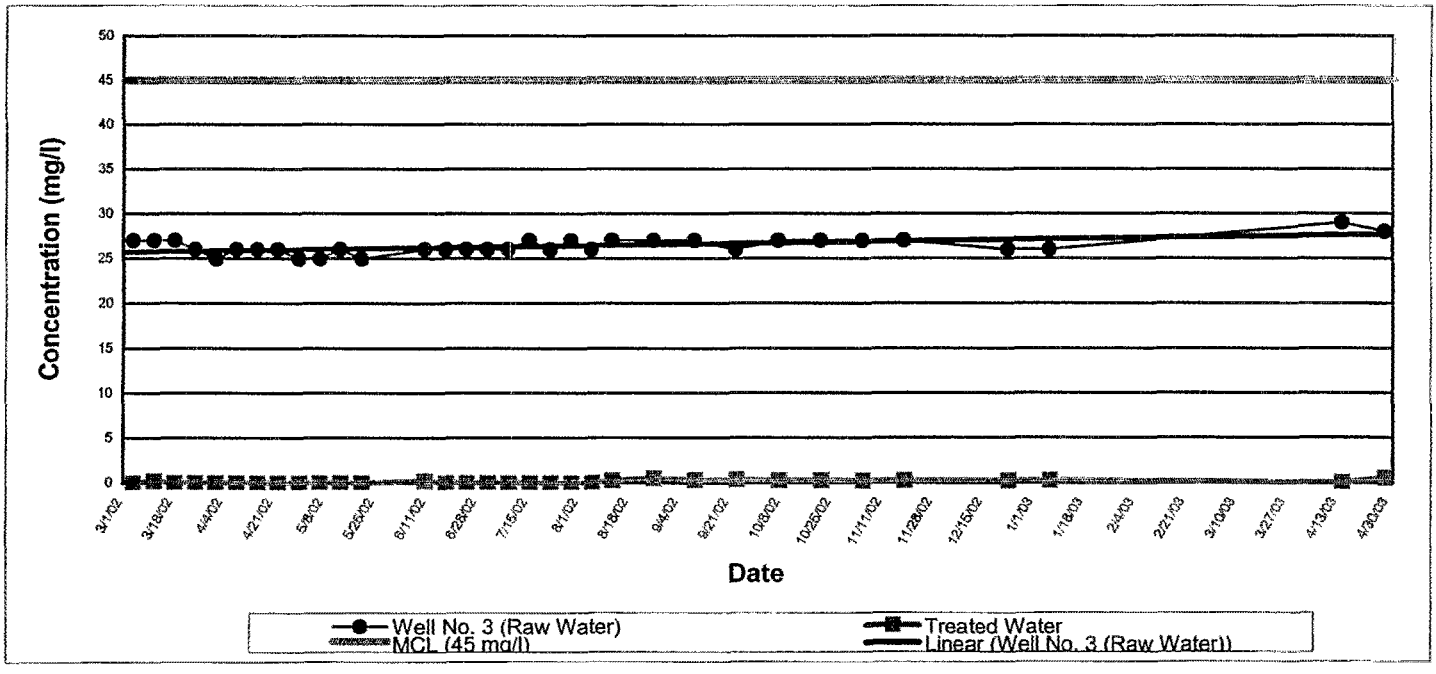
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
NDMA CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 9





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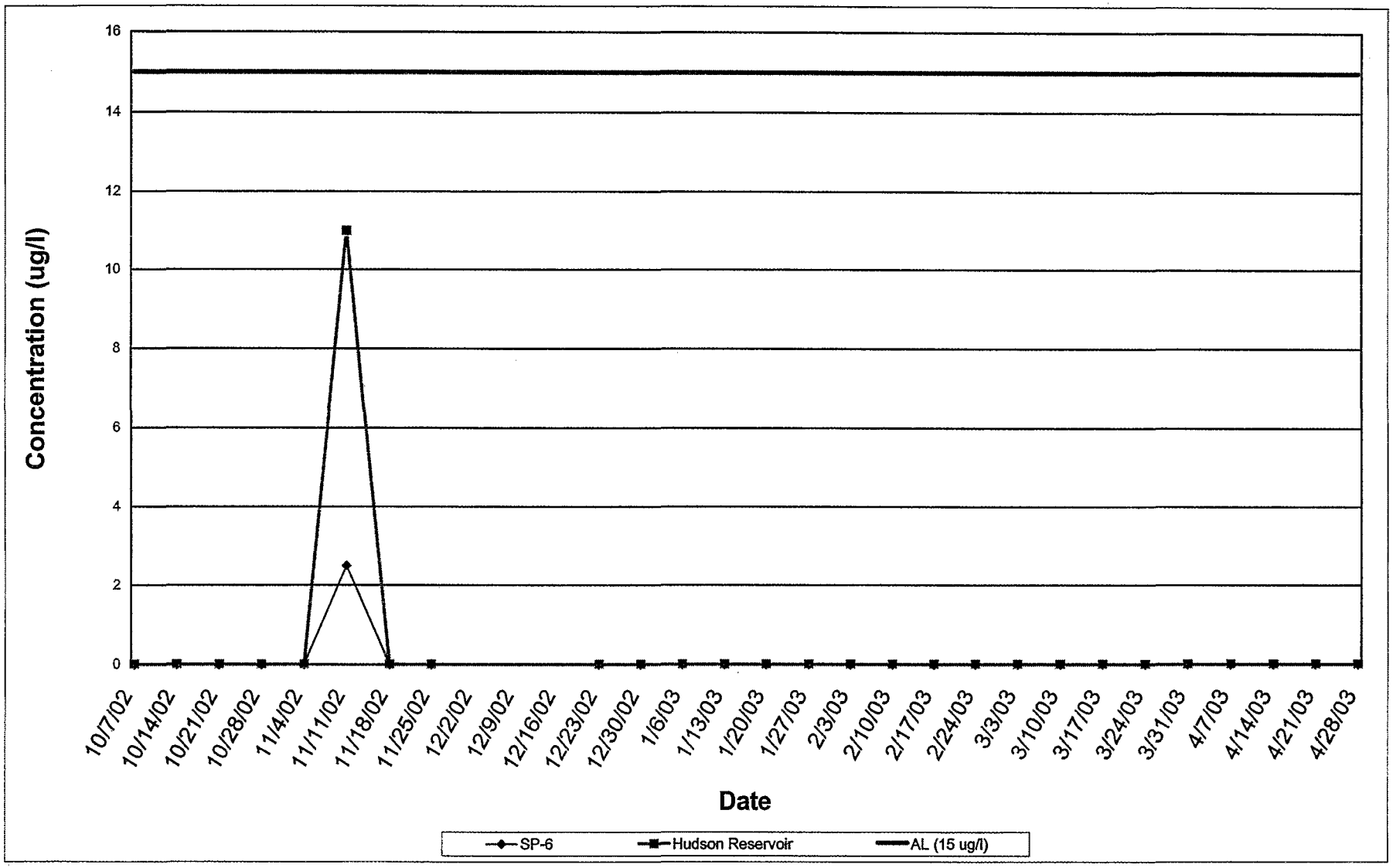
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

RAW WATER AND TREATED WATER
NITRATE CONCENTRATIONS AT LPVCWD TREATMENT FACILITY



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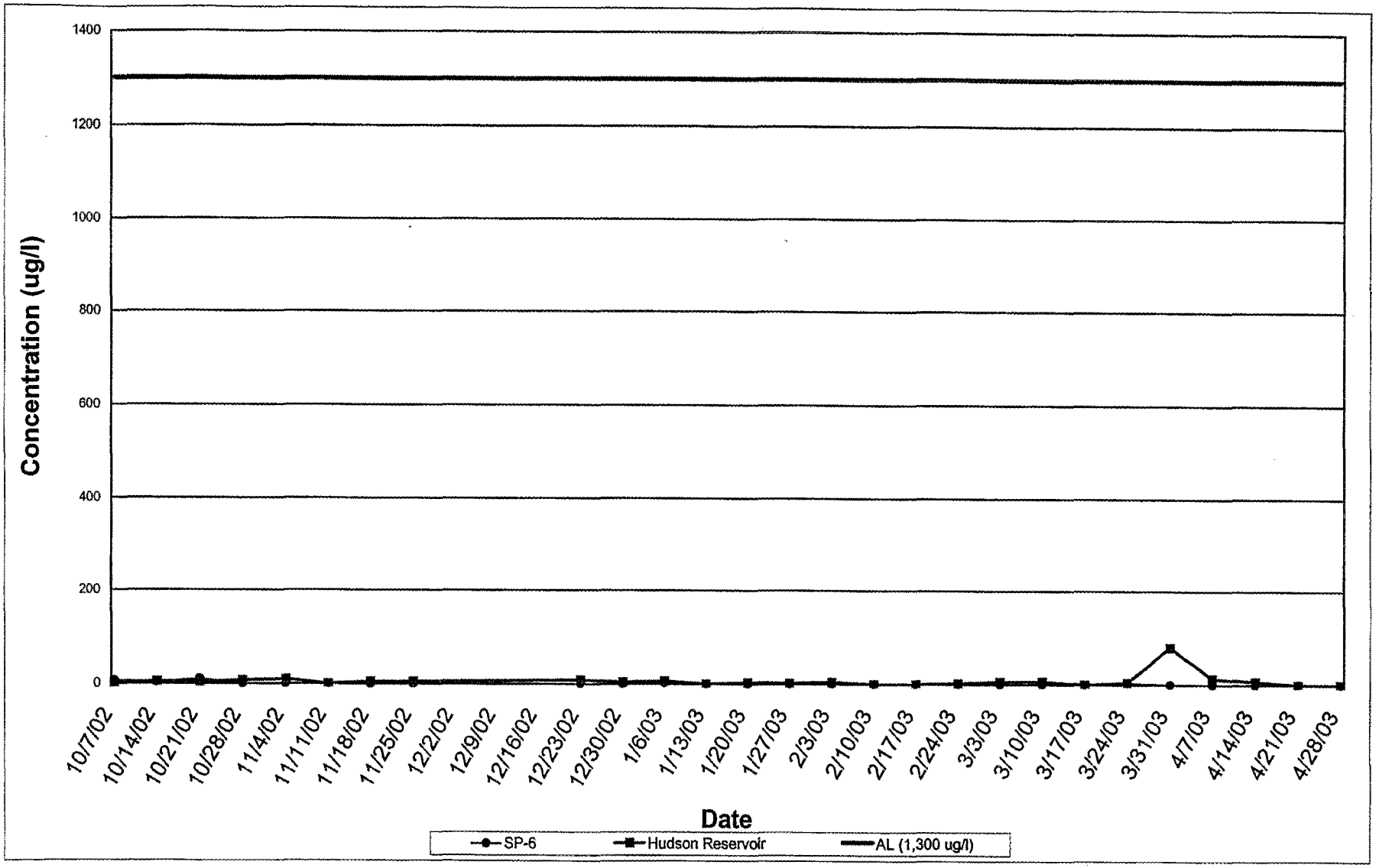
West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

TREATED WATER LEAD CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 10



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WATER RESOURCE ENGINEERS

LA PUENTE VALLEY COUNTY WATER DISTRICT

TREATED WATER COPPER CONCENTRATIONS AT LPVCWD TREATMENT FACILITY

FIGURE 11

TABLE 1
Operation Data Between March 1, 2002 and April 30, 2003
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

Month	Well Production, (AF/mo.)		Total Amount of Water Processed, (AF/mo.)	Plant Peak Flow, (gpm)	Air Stripper 1		Air Stripper 2		RayOx	Trojan	Hours of Operations, (hrs./day)					Hydrogen Peroxide Dosage, (ppm)	Chlorine Residuals, (ppm)	pH
	Well No. 2	Well No. 3			Air:Water Ratio (min.)	Peak Flow, (gpm)	Air:Water Ratio (min.)	Peak Flow, (gpm)	Number of Lamps in Operations	Number of Banks in Operations	Air Stripper #1	Air Stripper #2	ISEP	RayOx	UV		Hudson Reservoir	Hudson Reservoir
3/02	0.0	153.9	153.9	<2,500	56.25:1	800.0	64.29:1	1400.0	16.0	-	13.2	13.0	13.0	13.0	-	2.5	1.46	8.25
4/02	0.0	225.2	225.2	<2,500	56.25:1	800.0	64.29:1	1400.0	16.0	-	19.2	19.2	19.2	19.2	-	2.5	1.73	8.25
5/02	0.0	228.2	228.2	<2,500	56.25:1	800.0	64.29:1	1400.0	16.0	-	16.5	16.5	16.5	16.5	-	2.5	1.29	8.34
6/02	0.0	132.3	132.3	<2,500	56.25:1	800.0	64.29:1	1400.0	-	8, 4/4	14.4	14.4	14.4	14.4	-	2.5	0.94	8.25
7/02	0.0	264.8	264.8	<2,500	56.25:1	800.0	64.29:1	1400.0	-	8, 4/4	23.6	23.6	23.6	23.6	-	2.5	0.45	8.35
8/02	45.3	224.4	269.7	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	23.4	23.4	23.4	23.4	-	2.5	1.19	8.27
9/02	84.2	176.2	260.4	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	18.1	18.1	18.1	18.1	-	2.5	0.87	8.23
10/02	98.1	198.2	296.3	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	22.7	22.7	22.7	22.7	-	2.5	0.54	8.16
11/02	98.0	184.3	282.3	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	21.3	21.3	21.3	-	21.3	2.5	0.77	8.20
12/02	29.4	57.4	86.8	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	8.0	8.0	8.0	-	8.0	2.5	1.18	8.06
1/03	143.0	49.2	192.2	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	21.2	21.2	21.2	-	21.2	2.5	0.80	8.31
2/03	131.9	0.0	131.9	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	21.3	21.3	21.3	-	21.3	2.5	0.88	8.65
3/03	145.1	1.6	146.6	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	21.4	21.4	21.4	-	21.4	2.5	0.77	8.04
4/03	83.5	135.3	218.7	<2,500	56.25:1	1000.0	64.29:1	1500.0	-	8, 4/4	20.2	20.2	20.2	-	20.2	2.5	0.68	8.08
UM	858	2031	2889			13000		20500										
VERAGE	61	145	206	<2,500	56.25:1	929	64.29:1	1464	16	8, 4/4	19	19	19	19	19	2.5	1.0	8.2
IINIMUM	0	0	87	<2,500		800		1400	16	8, 4/4	8	8	8	13	8	2.5	0.4	8.0
IAXIMUM	145	265	296	<2,500		1000		1500	16	8, 4/4	24	24	24	24	21	2.5	1.7	8.7

TABLE 2
TCE Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-6	MCL (5 ug/l)	Removal Efficiency, % 1/	2/
3/4/02	--	45	0	5	100.00	98.89
3/11/02	--	36	0	5	100.00	98.61
3/18/02	--	39	0	5	100.00	98.72
3/25/02	--	49	0	5	100.00	98.98
4/1/02	--	44	0	5	100.00	98.86
4/8/02	--	48	0	5	100.00	98.96
4/15/02	--	47	0	5	100.00	98.94
4/22/02	--	45	0	5	100.00	98.89
4/29/02	--	41	0	5	100.00	98.78
5/6/02	--	38	0	5	100.00	98.68
5/13/02	--	31	0	5	100.00	98.39
5/20/02	--	36	0	5	100.00	98.61
6/10/02	--	36	0	5	100.00	98.61
6/17/02	--	41	0	5	100.00	98.78
6/24/02	--	35	0	5	100.00	98.57
7/1/02	--	36	0	5	100.00	98.61
7/8/02	--	35	0	5	100.00	98.57
7/15/02	--	34	0	5	100.00	98.53
7/22/02	--	33	0	5	100.00	98.48
7/29/02	--	33	0	5	100.00	98.48
8/5/02	--	38	0	5	100.00	98.68
8/12/02	--	36	0	5	100.00	98.61
8/19/02	44	--	0	5	100.00	98.86
8/26/02	--	37	0	5	100.00	98.65
9/2/02	41	--	0	5	100.00	98.78
9/9/02	--	31	0	5	100.00	98.39
9/16/02	46	--	0	5	100.00	98.91
9/23/02	--	32	0	5	100.00	98.44
9/30/02	60	--	0	5	100.00	99.17
10/7/02	--	37	0	5	100.00	98.65
10/14/02	48	--	0	5	100.00	98.96
10/21/02	--	30	0	5	100.00	98.33
10/28/02	37	--	0	5	100.00	98.65
11/4/02	--	31	0	5	100.00	98.39
11/11/02	44	--	0	5	100.00	98.86
11/18/02	--	32	0	5	100.00	98.44
11/25/02	48	--	0	5	100.00	98.96
12/23/02	--	34	0	5	100.00	98.53
12/30/02	56	--	0	5	100.00	99.11
1/6/03	--	36	0	5	100.00	98.61
1/13/03	47	--	0	5	100.00	98.94
1/20/03	48	--	0	5	100.00	98.96
1/27/03	44	--	0	5	100.00	98.86
2/3/03	42	--	0	5	100.00	98.81
2/10/03	47	--	0	5	100.00	98.94
2/17/03	41	--	0	5	100.00	98.78
2/24/03	42	--	0	5	100.00	98.81
3/3/03	23	--	0	5	100.00	97.83
3/10/03	19	--	0	5	100.00	97.37
3/17/03	42	--	0	5	100.00	98.81
3/24/03	34	--	0	5	100.00	98.53
4/7/03	43	--	0	5	100.00	98.84
4/14/03	--	27	0	5	100.00	98.15
4/21/03	43	--	0	5	100.00	98.84
4/28/03	--	37	0	5	100.00	98.65
SUM	939	1220	0		5500	5427
AVERAGE	42.7	37.0	0.0		100.0	98.7
MINIMUM	19.0	27.0	0.0		100.0	97.4
MAXIMUM	60.0	49.0	0.0		100.0	99.2

Notes:
1/ Calcuated using 0 ug/l for non-detectable results
2/ Calculated using the detection limit of 0.5 ug/l for non-detectable results

TABLE 3
PCE Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-6	MCL (5 ug/l)	Removal Efficiency, % 1/	Removal Efficiency, % 2/
3/4/02	--	3.8	0	5	100.00	86.84
3/11/02	--	4	0	5	100.00	87.50
3/18/02	--	4.2	0	5	100.00	88.10
3/25/02	--	3.8	0	5	100.00	86.84
4/1/02	--	4.2	0	5	100.00	88.10
4/8/02	--	3.6	0	5	100.00	86.11
4/15/02	--	3.8	0	5	100.00	86.84
4/22/02	--	4.1	0	5	100.00	87.80
4/29/02	--	4.3	0	5	100.00	88.37
5/6/02	--	3.5	0	5	100.00	85.71
5/13/02	--	3.3	0	5	100.00	84.85
5/20/02	--	3.5	0	5	100.00	85.71
6/10/02	--	3.2	0	5	100.00	84.38
6/17/02	--	2.9	0	5	100.00	82.76
6/24/02	--	3	0	5	100.00	83.33
7/1/02	--	3	0	5	100.00	83.33
7/8/02	--	3	0	5	100.00	83.33
7/15/02	--	3.1	0	5	100.00	83.87
7/22/02	--	3.4	0	5	100.00	85.29
7/29/02	--	3.5	0	5	100.00	85.71
8/5/02	--	3.4	0	5	100.00	85.29
8/12/02	--	3.4	0	5	100.00	85.29
8/19/02	2.5	--	0	5	100.00	80.00
8/26/02	--	3.1	0	5	100.00	83.87
9/2/02	3.2	--	0	5	100.00	84.38
9/9/02	--	3.6	0	5	100.00	86.11
9/16/02	2.7	--	0	5	100.00	81.48
9/23/02	--	3.1	0	5	100.00	83.87
9/30/02	4.5	--	0	5	100.00	88.89
10/7/02	--	2.9	0	5	100.00	82.76
10/14/02	2.4	--	0	5	100.00	79.17
10/21/02	--	3.8	0	5	100.00	86.84
10/28/02	2.5	--	0	5	100.00	80.00
11/4/02	--	3.6	0	5	100.00	86.11
11/11/02	2.4	--	0	5	100.00	79.17
11/18/02	--	2.7	0	5	100.00	81.48
11/25/02	2.7	--	0	5	100.00	81.48
12/23/02	--	3.4	0	5	100.00	85.29
12/30/02	2.8	--	0	5	100.00	82.14
1/6/03	--	2.8	0	5	100.00	82.14
1/13/03	2.3	--	0	5	100.00	78.26
1/20/03	2.2	--	0	5	100.00	77.27
1/27/03	2.3	--	0	5	100.00	78.26
2/3/03	2	--	0	5	100.00	75.00
2/10/03	2.1	--	0	5	100.00	76.19
2/17/03	2.2	--	0	5	100.00	77.27
2/24/03	1.9	--	0	5	100.00	73.68
3/3/03	1	--	0	5	100.00	50.00
3/10/03	0.71	--	0	5	100.00	29.58
3/17/03	2.1	--	0	5	100.00	76.19
3/24/03	1.5	--	0	5	100.00	66.67
4/7/03	2.4	--	0	5	100.00	79.17
4/14/03	--	3.1	0	5	100.00	83.87
4/21/03	2.2	--	0	5	100.00	77.27
4/28/03	--	2.8	0	5	100.00	82.14
SUM	51	113	0		5500	4461
AVERAGE	2.3	3.4	0.0		100.0	81.1
MINIMUM	0.7	2.7	0.0		100.0	29.6
MAXIMUM	4.5	4.3	0.0		100.0	88.9

Notes:
1/ Calcuated using 0 ug/l for non-detectable results
2/ Calculated using the detection limit of 0.5 ug/l for non-detectable results

TABLE 4
CTC Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-6	MCL (0.5 ug/l)	Removal Efficiency, % 1/	2/
3/4/02	--	2.8	0	0.5	100.00	82.14
3/11/02	--	1.8	0	0.5	100.00	72.22
3/18/02	--	2	0	0.5	100.00	75.00
3/25/02	--	2.8	0	0.5	100.00	82.14
4/1/02	--	2.6	0	0.5	100.00	80.77
4/8/02	--	2.7	0	0.5	100.00	81.48
4/15/02	--	2.8	0	0.5	100.00	82.14
4/22/02	--	2.9	0	0.5	100.00	82.76
4/29/02	--	2.5	0	0.5	100.00	80.00
5/6/02	--	2.2	0	0.5	100.00	77.27
5/13/02	--	2.3	0	0.5	100.00	78.26
5/20/02	--	2.4	0	0.5	100.00	79.17
6/10/02	--	2.1	0	0.5	100.00	76.19
6/17/02	--	2.2	0	0.5	100.00	77.27
6/24/02	--	2.3	0	0.5	100.00	78.26
7/1/02	--	2.4	0	0.5	100.00	79.17
7/8/02	--	2.5	0	0.5	100.00	80.00
7/15/02	--	2	0	0.5	100.00	75.00
7/22/02	--	1.9	0	0.5	100.00	73.68
7/29/02	--	1.8	0	0.5	100.00	72.22
8/5/02	--	2	0	0.5	100.00	75.00
8/12/02	--	2	0	0.5	100.00	75.00
8/19/02	5.7	--	0	0.5	100.00	91.23
8/26/02	--	1.9	0	0.5	100.00	73.68
9/2/02	2.1	--	0	0.5	100.00	76.19
9/9/02	--	1.9	0	0.5	100.00	73.68
9/16/02	5.4	--	0	0.5	100.00	90.74
9/23/02	--	1.8	0	0.5	100.00	72.22
9/30/02	4.8	--	0	0.5	100.00	89.58
10/7/02	--	2	0	0.5	100.00	75.00
10/14/02	5.8	--	0	0.5	100.00	91.38
10/21/02	--	1.9	0	0.5	100.00	73.68
10/28/02	4.5	--	0	0.5	100.00	88.89
11/4/02	--	2.1	0	0.5	100.00	76.19
11/11/02	5.4	--	0	0.5	100.00	90.74
11/18/02	--	2	0	0.5	100.00	75.00
11/25/02	6.5	--	0	0.5	100.00	92.31
12/23/02	--	2	0	0.5	100.00	75.00
12/30/02	6.2	--	0	0.5	100.00	91.94
1/6/03	--	2.1	0	0.5	100.00	76.19
1/13/03	4.9	--	0	0.5	100.00	89.80
1/20/03	5.1	--	0	0.5	100.00	90.20
1/27/03	5.2	--	0	0.5	100.00	90.38
2/3/03	5	--	0	0.5	100.00	90.00
2/10/03	5.2	--	0	0.5	100.00	90.38
2/17/03	4.5	--	0	0.5	100.00	88.89
2/24/03	4.3	--	0	0.5	100.00	88.37
3/3/03	2.6	--	0	0.5	100.00	80.77
3/10/03	2	--	0	0.5	100.00	75.00
3/17/03	6.1	--	0	0.5	100.00	91.80
3/24/03	4	--	0	0.5	100.00	87.50
4/7/03	6.2	--	0	0.5	100.00	91.94
4/14/03	--	1.6	0	0.5	100.00	68.75
4/21/03	7.2	--	0	0.5	100.00	93.06
4/28/03	--	1.9	0	0.5	100.00	73.68
SUM	109	72	0		5500	4479
AVERAGE	4.9	2.2	0.0		100.0	81.4
MINIMUM	2.0	1.6	0.0		100.0	68.8
MAXIMUM	7.2	2.9	0.0		100.0	93.1

Notes:
1/ Calcuated using 0 ug/l for non-detectable results
2/ Calculated using the detection limit of 0.5 ug/l for non-detectable results

TABLE 5
1,2-DCA Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-6	MCL (0.5 ug/l)	Removal Efficiency, % 1/	2/
3/4/02	--	3.1	0	0.5	100.00	83.87
3/11/02	--	1.8	0	0.5	100.00	72.22
3/18/02	--	2	0	0.5	100.00	75.00
3/25/02	--	3	0	0.5	100.00	83.33
4/1/02	--	2.9	0	0.5	100.00	82.76
4/8/02	--	2.9	0	0.5	100.00	82.76
4/15/02	--	3.2	0	0.5	100.00	84.38
4/22/02	--	2.9	0	0.5	100.00	82.76
4/29/02	--	2.7	0	0.5	100.00	81.48
5/6/02	--	2.3	0	0.5	100.00	78.26
5/13/02	--	2.4	0	0.5	100.00	79.17
5/20/02	--	2.7	0	0.5	100.00	81.48
6/10/02	--	2.3	0	0.5	100.00	78.26
6/17/02	--	2.6	0	0.5	100.00	80.77
6/24/02	--	2.3	0	0.5	100.00	78.26
7/1/02	--	2.5	0	0.5	100.00	80.00
7/8/02	--	2.5	0	0.5	100.00	80.00
7/15/02	--	2.2	0	0.5	100.00	77.27
7/22/02	--	2	0	0.5	100.00	75.00
7/29/02	--	1.7	0	0.5	100.00	70.59
8/5/02	--	2.4	0	0.5	100.00	79.17
8/12/02	--	2.5	0	0.5	100.00	80.00
8/19/02	2.4	--	0	0.5	100.00	79.17
8/26/02	--	2.3	0	0.5	100.00	78.26
9/2/02	2.2	--	0	0.5	100.00	77.27
9/9/02	--	1.9	0	0.5	100.00	73.68
9/16/02	2.3	--	0	0.5	100.00	78.26
9/23/02	--	2	0	0.5	100.00	75.00
9/30/02	3.9	--	0	0.5	100.00	87.18
10/7/02	--	2.1	0	0.5	100.00	76.19
10/14/02	2.5	--	0	0.5	100.00	80.00
10/21/02	--	1.9	0	0.5	100.00	73.68
10/28/02	1.7	--	0	0.5	100.00	70.59
11/4/02	--	2.2	0	0.5	100.00	77.27
11/11/02	2.2	--	0	0.5	100.00	77.27
11/18/02	--	2.3	0	0.5	100.00	78.26
11/25/02	2.6	--	0	0.5	100.00	80.77
12/23/02	--	2	0	0.5	100.00	75.00
12/30/02	2.5	--	0	0.5	100.00	80.00
1/6/03	--	2.1	0	0.5	100.00	76.19
1/13/03	2.3	--	0	0.5	100.00	78.26
1/20/03	2.1	--	0	0.5	100.00	76.19
1/27/03	2	--	0	0.5	100.00	75.00
2/3/03	2	--	0	0.5	100.00	75.00
2/10/03	2	--	0	0.5	100.00	75.00
2/17/03	2	--	0	0.5	100.00	75.00
2/24/03	2	--	0	0.5	100.00	75.00
3/3/03	1.1	--	0	0.5	100.00	54.55
3/10/03	0.94	--	0	0.5	100.00	46.81
3/17/03	2.3	--	0	0.5	100.00	78.26
3/24/03	1.8	--	0	0.5	100.00	72.22
4/7/03	2.1	--	0	0.5	100.00	76.19
4/14/03	--	1.9	0	0.5	100.00	73.68
4/21/03	2.5	--	0	0.5	100.00	80.00
4/28/03	--	2.1	0	0.5	100.00	76.19
SUM	47	78	0		5500	4228
AVERAGE	2.2	2.4	0.0		100.0	76.9
MINIMUM	0.9	1.7	0.0		100.0	46.8
MAXIMUM	3.9	3.2	0.0		100.0	87.2

Notes:
1/ Calcuated using 0 ug/l for non-detectable results
2/ Calculated using the detection limit of 0.5 ug/l for non-detectable results

TABLE 6
Perchlorate Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-6	AL (4 ug/l)	Removal Efficiency, %
3/4/02	--	62	3.4	4	94.52
3/11/02	--	61	4.1	4	93.28
3/18/02	--	63	3.8	4	93.97
3/25/02	--	69	3.8	4	94.49
4/1/02	--	68	0	4	100.00
4/8/02	--	71	0	4	100.00
4/15/02	--	67	0	4	100.00
4/22/02	--	65	0	4	100.00
4/29/02	--	62	0	4	100.00
5/6/02	--	64	0	4	100.00
5/13/02	--	58	0	4	100.00
5/20/02	--	54	0	4	100.00
6/10/02	--	53	3.4	4	93.58
6/17/02	--	60	0	4	100.00
6/24/02	--	62	3.5	4	94.35
7/1/02	--	64	0	4	100.00
7/8/02	--	63	--	4	--
7/15/02	--	62	0	4	100.00
7/22/02	--	61	0	4	100.00
7/29/02	--	64	0	4	100.00
8/5/02	--	58	0	4	100.00
8/12/02	--	60	0	4	100.00
8/19/02	53	--	3	4	94.34
8/26/02	--	45	4.5	4	90.00
9/2/02	56	--	3.1	4	94.46
9/9/02	--	51	0	4	100.00
9/16/02	57	--	0	4	100.00
9/23/02	--	50	0	4	100.00
9/30/02	74	--	3.1	4	95.81
10/7/02	--	52	0	4	100.00
10/14/02	60	--	0	4	100.00
10/21/02	--	53	0	4	100.00
10/28/02	57	--	0	4	100.00
11/4/02	--	51	0	4	100.00
11/11/02	57	--	0	4	100.00
11/18/02	--	41	0	4	100.00
11/25/02	43	--	0	4	100.00
12/23/02	--	42	0	4	100.00
12/30/02	50	--	0	4	100.00
1/6/03	--	47	0	4	100.00
1/13/03	50	--	0	4	100.00
1/20/03	50	--	0	4	100.00
1/27/03	49	--	0	4	100.00
2/3/03	43	--	0	4	100.00
2/10/03	44	--	0	4	100.00
2/17/03	44	--	0	4	100.00
2/24/03	42	--	0	4	100.00
3/3/03	43	--	0	4	100.00
3/10/03	47	--	0	4	100.00
3/17/03	43	--	0	4	100.00
3/24/03	42	--	0	4	100.00
4/7/03	41	--	0	4	100.00
4/14/03	--	33	0	4	100.00
4/21/03	43	--	0	4	100.00
4/28/03	--	40	0	4	100.00
SUM	1088	1876	36		5339
AVERAGE	49.5	56.8	0.7		98.9
MINIMUM	41.0	33.0	0.0		90.0
MAXIMUM	74.0	71.0	4.5		100.0

TABLE 7
1,4-Dioxane Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-6	AL (3 ug/l)	Removal Efficiency, %
3/4/02	--	1.9	0	3	100.00
3/11/02	--	1.8	0	3	100.00
3/18/02	--	1.9	0	3	100.00
3/25/02	--	1.8	0	3	100.00
4/1/02	--	2.1	0	3	100.00
4/8/02	--	1.9	0	3	100.00
4/15/02	--	1.9	0	3	100.00
4/22/02	--	1.9	0	3	100.00
4/29/02	--	2.2	0	3	100.00
5/6/02	--	1.8	0	3	100.00
5/13/02	--	2.2	0	3	100.00
5/20/02	--	1.7	0	3	100.00
6/10/02	--	1.6	0	3	100.00
6/17/02	--	1.7	0	3	100.00
6/24/02	--	1.9	0.7	3	63.16
7/1/02	--	1.6	0	3	100.00
7/8/02	--	1.5	0	3	100.00
7/15/02	--	1.6	0	3	100.00
7/22/02	--	2	0	3	100.00
7/29/02	--	1.8	0	3	100.00
8/5/02	--	3.5	0	3	100.00
8/12/02	--	1.7	1.3	3	23.53
8/19/02	1.2	--	0	3	100.00
8/26/02	--	2.5	0	3	100.00
9/2/02	2.6	--	0	3	100.00
9/9/02	--	1.5	0	3	100.00
9/16/02	2	--	0	3	100.00
9/23/02	--	1.4	0	3	100.00
9/30/02	2.1	--	0	3	100.00
10/7/02	--	1.4	0	3	100.00
10/14/02	2.5	--	0	3	100.00
10/21/02	--	1.5	0	3	100.00
10/28/02	1.4	--	0	3	100.00
11/4/02	--	1.4	0	3	100.00
11/11/02	1.2	--	0	3	100.00
11/18/02	--	1.2	0	3	100.00
11/25/02	1.3	--	0	3	100.00
12/23/02	--	0.64	0	3	100.00
12/30/02	0.64	--	0	3	100.00
1/6/03	--	0.96	0	3	100.00
1/13/03	1.1	--	0	3	100.00
1/20/03	0.99	--	0	3	100.00
1/27/03	1.8	--	0	3	100.00
2/3/03	1.3	--	0	3	100.00
2/10/03	1.6	--	0	3	100.00
2/17/03	1.4	--	0.65	3	53.57
2/24/03	1.4	--	0	3	100.00
3/3/03	1.1	--	0.69	3	37.27
3/10/03	1.1	--	0	3	100.00
3/17/03	1.4	--	0	3	100.00
3/24/03	1.2	--	0.76	3	36.67
4/7/03	1	--	0	3	100.00
4/14/03	--	0.82	0	3	100.00
4/21/03	0.78	--	0	3	100.00
4/28/03	--	0	0	3	100.00
SUM	31	55	4		5214
AVERAGE	1.4	1.7	0.1		94.8
MINIMUM	0.6	0.0	0.0		23.5
MAXIMUM	2.6	3.5	1.3		100.0

TABLE 8
NDMA Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-6	AL (10 ng/l)	Removal Efficiency, %
3/4/02	--	360	0	10	100.00
3/11/02	--	310	1.6	10	99.48
3/18/02	--	340	0	10	100.00
3/25/02	--	320	0	10	100.00
4/1/02	--	390	0	10	100.00
4/8/02	--	420	0	10	100.00
4/15/02	--	350	0	10	100.00
4/22/02	--	320	0	10	100.00
4/29/02	--	310	0	10	100.00
5/6/02	--	320	0	10	100.00
5/13/02	--	340	5.2	10	98.47
5/20/02	--	310	0	10	100.00
6/10/02	--	220	0	10	100.00
6/17/02	--	170	0	10	100.00
6/24/02	--	300	0	10	100.00
7/1/02	--	390	0	10	100.00
7/8/02	--	360	0	10	100.00
7/15/02	--	340	0	10	100.00
7/22/02	--	310	1.6	10	99.48
7/29/02	--	400	1.3	10	99.68
8/5/02	--	280	1.1	10	99.61
8/12/02	--	320	1.3	10	99.59
8/19/02	180	--	0	10	100.00
8/26/02	--	240	0	10	100.00
9/2/02	200	--	0	10	100.00
9/9/02	--	230	0	10	100.00
9/16/02	110	--	0	10	100.00
9/23/02	--	190	0	10	100.00
9/30/02	280	--	0	10	100.00
10/7/02	--	340	1.3	10	99.62
10/14/02	280	--	0	10	100.00
10/21/02	--	310	0	10	100.00
10/28/02	160	--	0	10	100.00
11/4/02	--	330	0	10	100.00
11/11/02	210	--	0	10	100.00
11/18/02	--	300	0	10	100.00
11/25/02	250	--	0	10	100.00
12/23/02	--	250	0	10	100.00
12/30/02	210	--	0	10	100.00
1/6/03	--	310	0	10	100.00
1/13/03	260	--	0	10	100.00
1/20/03	210	--	0	10	100.00
1/27/03	220	--	0	10	100.00
2/3/03	210	--	0	10	100.00
2/10/03	240	--	2.8	10	98.83
2/17/03	220	--	0	10	100.00
2/24/03	290	--	0	10	100.00
3/3/03	170	--	0	10	100.00
3/10/03	190	--	0	10	100.00
3/17/03	180	--	0	10	100.00
3/24/03	160	--	0	10	100.00
4/7/03	230	--	0	10	100.00
4/14/03	--	350	0	10	100.00
4/21/03	140	--	0	10	100
4/28/03	--	200	5.1	10	97.45
SUM	4600	10230	21		5492
AVERAGE	209.1	310.0	0.4		99.9
MINIMUM	110.0	170.0	0.0		97.5
MAXIMUM	290.0	420.0	5.2		100.0

TABLE 9
Nitrate Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	Raw Water Well No. 2	Raw Water Well No. 3	Treated Water SP-4	MCL (45 mg/l)	Removal Efficiency, %
3/4/02	--	27	0	45	100.00
3/11/02	--	27	0.22	45	99.19
3/18/02	--	27	0	45	100.00
3/25/02	--	26	0	45	100.00
4/1/02	--	25	0	45	100.00
4/8/02	--	26	0	45	100.00
4/15/02	--	26	0	45	100.00
4/22/02	--	26	0	45	100.00
4/29/02	--	25	0	45	100.00
5/6/02	--	25	0	45	100.00
5/13/02	--	26	0	45	100.00
5/20/02	--	25	0	45	100.00
6/10/02	--	26	0.21	45	99.19
6/17/02	--	26	0	45	100.00
6/24/02	--	26	0	45	100.00
7/1/02	--	26	0	45	100.00
7/8/02	--	26	0	45	100.00
7/15/02	--	27	0	45	100.00
7/22/02	--	26	0	45	100.00
7/29/02	--	27	0	45	100.00
8/5/02	--	26	0	45	100.00
8/12/02	--	27	0.29	45	98.93
8/19/02	18	--	0.33	45	98.17
8/26/02	--	27	0.47	45	98.26
9/2/02	27	--	0.36	45	98.67
9/9/02	--	27	0.32	45	98.81
9/16/02	18	--	0.26	45	98.56
9/23/02	--	26	0.35	45	98.65
9/30/02	22	--	0	45	100.00
10/7/02	--	27	0.27	45	99.00
10/14/02	18	--	0.22	45	98.78
10/21/02	--	27	0.26	45	99.04
10/28/02	18	--	0.24	45	98.67
11/4/02	--	27	0.21	45	99.22
11/11/02	17	--	0.26	45	98.47
11/18/02	--	27	0.23	45	99.15
11/25/02	17	--	0	45	100.00
12/23/02	--	26	0.2	45	99.23
12/30/02	17	--	0.22	45	98.71
1/6/03	--	26	0.26	45	99.00
1/13/03	17	--	0	45	100.00
1/20/03	18	--	0	45	100.00
1/27/03	18	--	0.49	45	97.28
2/3/03	18	--	0	45	100.00
2/10/03	18	--	0	45	100.00
2/17/03	18	--	0	45	100.00
2/24/03	18	--	0	45	100.00
3/3/03	18	--	0	45	100.00
3/10/03	18	--	0	45	100.00
3/17/03	19	--	0	45	100.00
3/24/03	19	--	0	45	100.00
4/7/03	19	--	0	45	100.00
4/14/03	--	29	0	45	100.00
4/21/03	18	--	0.71	45	96.06
4/28/03	--	28	0.52	45	98.14
SUM	408	871	7		5469
AVERAGE	18.5	26.4	0.1		99.4
MINIMUM	17.0	25.0	0.0		96.1
MAXIMUM	27.0	29.0	0.7		100.0

TABLE 10
Sensitivity of Prior Source Monitoring
La Puente Valley County Water District Treatment Facility

Contaminant	Historic High (ug/l)	Well No. 2 2002-03 Operation Data (ug/l)		
		Minimum	Average	Maximum
TCE	120.0	19.0	42.7	60.0
PCE	6.6	0.7	2.3	4.5
CTC	6.1	2.0	4.9	7.2
1,2-DCA	6.1	0.9	2.2	3.9
Perchlorate	183	41.0	49.5	74.0
1,4- Dioxane	3.2	0.6	1.4	2.6
NDMA	0.9	0.110	0.209	0.290
Nitrate	27000	17000	18500	27000

Contaminant	Historic High (ug/l)	Well No. 3 2002-03 Operation Data (ug/l)		
		Minimum	Average	Maximum
TCE	89.5	27.0	37.0	49.0
PCE	6.3	2.7	3.4	4.3
CTC	7.1	1.6	2.2	2.9
1,2-DCA	7.1	1.7	2.4	3.2
Perchlorate	163	33.0	56.8	71.0
1,4- Dioxane	3.4	0.0	1.7	3.5
NDMA	1.6	0.170	0.310	0.420
Nitrate	34000	25000	26400	29000

TABLE 11
Energy Expenses Comparison of
Rayox and UVTerra

	Power Expenses	Production (Acre-foot)	Cost of Power per Acre-foot
Mar-01	$15,362	84	$183
Apr-01	$14,963	112	$134
May-01	$15,485	166	$93
Jun-01	$38,847	161	$241
Jul-01	$32,999	179	$184
Aug-01	$42,504	196	$217
Sep-01	$31,230	198	$158
Oct-01	$33,437	169	$198
Nov-01	$33,786	142	$238
Dec-01	$28,940	121	$239
Jan-02	$27,413	126	$218
Feb-02	$25,957	103	$252
Mar-02	$33,049	159	$208
Apr-02	$41,989	225	$187
May-02	$50,304	228	$221
Average energy expense per Acre-foot of water treated using Rayox			**$198**

	Power Expenses	Production (Acre-foot)	Cost of Power per Acre-foot
Jun-02	$27,015	136	$199
Jul-02	$43,975	267	$165
Aug-02	$42,878	254	$169
Sep-02	$40,705	260	$157
Oct-02	$42,479	296	$144
Nov-02	$36,118	294	$123
Dec-02	$19,596	110	$178
Jan-03	$27,413	193	$142
Feb-03	$18,359	162	$113
Mar-03	$19,815	145	$137
Apr-03	$23,338	215	$109
Average energy expense per Acre-foot of water treated using UVTerra			**$158**

TABLE 12
Lead Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	SP-6	Hudson Reservoir	AL (15 ug/l)
10/7/02	0	0	15
10/14/02	0	0	15
10/21/02	0	0	15
10/28/02	0	0	15
11/4/02	0	0	15
11/11/02	2.5	11	15
11/18/02	0	0	15
11/25/02	0	0	15
12/23/02	0	0	15
12/30/02	0	0	15
1/6/03	0	0	15
1/13/03	0	0	15
1/20/03	0	0	15
1/27/03	0	0	15
2/3/03	0	0	15
2/10/03	0	0	15
2/17/03	0	0	15
2/24/03	0	0	15
3/3/03	0	0	15
3/10/03	0	0	15
3/17/03	0	0	15
3/24/03	0	0	15
3/31/03	0	0	15
4/7/03	0	0	15
4/14/03	0	0	15
4/21/03	0	0	15
4/28/03	0	0	15
SUM	3	11	
AVERAGE	0.1	0.4	
MINIMUM	0.0	0.0	
MAXIMUM	2.5	11.0	

TABLE 13
Copper Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	SP-6	Hudson Reservoir	AL (1,300 ug/l)
10/7/02	6.3	2.2	1,300
10/14/02	3.3	4.6	1,300
10/21/02	10	3.8	1,300
10/28/02	0	7.5	1,300
11/4/02	0	9.7	1,300
11/11/02	0	0	1,300
11/18/02	0	4.7	1,300
11/25/02	0	4.7	1,300
12/23/02	0	8.6	1,300
12/30/02	0	4.3	1,300
1/6/03	2.3	6.5	1,300
1/13/03	0	0	1,300
1/20/03	0	3	1,300
1/27/03	0	2.1	1,300
2/3/03	0	4.2	1,300
2/10/03	0	0	1,300
2/17/03	0	0	1,300
2/24/03	0	2.1	1,300
3/3/03	0	5.9	1,300
3/10/03	0	6.2	1,300
3/17/03	0	0	1,300
3/24/03	3.1	4.4	1,300
3/31/03	0	79	1,300
4/7/03	0	13	1,300
4/14/03	0	6.7	1,300
4/21/03	0	0	1,300
4/28/03	0	0	1,300
SUM	25	183	
AVERAGE	0.9	6.8	
MINIMUM	0.0	0.0	
MAXIMUM	10.0	79.0	

TABLE 14
Tin Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	SP-6	Hudson Reservoir	MCL
10/7/02	0	0	N/A
10/14/02	0	0	N/A
10/21/02	0	0	N/A
10/28/02	0	0	N/A
11/4/02	0	0	N/A
11/11/02	0	0	N/A
11/18/02	0	0	N/A
11/25/02	0	0	N/A
12/23/02	0	0	N/A
12/30/02	0	0	N/A
1/6/03	0	0	N/A
1/13/03	0	0	N/A
1/20/03	0	0	N/A
1/27/03	0	0	N/A
2/3/03	0	0	N/A
2/10/03	0	0	N/A
2/17/03	0	0	N/A
2/24/03	0	0	N/A
3/3/03	0	0	N/A
3/10/03	0	0	N/A
3/17/03	0	0	N/A
3/24/03	0	0	N/A
3/31/03	0	0	N/A
4/7/03	0	0	N/A
4/14/03	0	0	N/A
4/21/03	0	0	N/A
4/28/03	0	0	N/A
SUM	0	0	
AVERAGE	0.0	0.0	
MINIMUM	0.0	0.0	
MAXIMUM	0.0	0.0	

TABLE 15
Thallium Concentrations for
La Puente Valley County Water District Treatment Facility
SYSTEM NO. 1910060

DATE	SP-6	Hudson Reservoir	MCL (2 ug/l)
10/7/02	0	0	2
10/14/02	0	0	2
10/21/02	0	0	2
10/28/02	0	0	2
11/4/02	0	0	2
11/11/02	0	0	2
11/18/02	0	0	2
11/25/02	0	0	2
12/23/02	0	0	2
12/30/02	0	0	2
1/6/03	0	0	2
1/13/03	0	0	2
1/20/03	0	0	2
1/27/03	0	0	2
2/3/03	0	0	2
2/10/03	0	0	2
2/17/03	0	0	2
2/24/03	0	0	2
3/3/03	0	0	2
3/10/03	0	0	2
3/17/03	0	0	2
3/24/03	0	0	2
3/31/03	0	0	2
4/7/03	0	0	2
4/14/03	0	0	2
4/21/03	0	0	2
4/28/03	0	0	2
SUM	0	0	
AVERAGE	0.0	0.0	
MINIMUM	0.0	0.0	
MAXIMUM	0.0	0.0	

APPENDIX A

DHS PERMIT NUMBER
04-16-01PA-000

Department of Health Services

Drinking Water Field Operations Branch

WATER PERMIT AMENDMENT
NO. 04-16-01PA-000

LA PUENTE VALLEY COUNTY WATER DISTRICT

Los Angeles County
System No. 1910060

February 15, 2001

DEPARTMENT OF HEALTH SERVICES
DRINKING WATER FIELD OPERATIONS
SOUTHERN CALIFORNIA BRANCH
1449 West Temple Street, Room 202
Los Angeles, CA 90026
(213) 580-5723
(213) 580-5711(FAX)

February 15, 2000

La Puente Valley County Water District
15825 East Main Street
La Puente, California 91744

Gentlemen:

PERMIT AMENDMENT NUMBER: 04-16-00PA-000
WATER SYSTEM NO. 1910060

Application of the La Puente Valley County Water District (hereinafter LPVCWD) dated September 29, 1999, made in accordance with Section 116550 of the California Health and Safety Code for an amendment to their domestic water supply permit, has been considered by the State Department of Health Services (Department). Enclosed is a copy of an engineering report, dated December 2000, prepared by the Drinking Water Field Operations Branch – Central District.

It is the finding of the State Department of Health Services that the provisions of the California Code of Regulations and the California Health and Safety Code can be met by LPVCWD. This finding is based on the above-mentioned engineering report. A domestic water supply permit amendment is hereby granted to LPVCWD to operate two existing domestic water supply wells in the San Gabriel Basin, to treat the water from the wells, and provide the treated water to the consumers of LPVCWD. The permit amendment is subject to the following provisions:

GENERAL:

1. LPVCWD shall comply with all California State laws applicable to public water systems and any regulations and standards adopted thereunder.

2. LPVCWD's only sources approved for potable water supply are those listed in Tables 1 and 2. The Primary Station Codes (P.S. Codes) associated with the sources of supply and the treatment facility are provided in the tables. The P.S. Codes are to be used for Electronic Data Transmission (EDT).

TABLE 1 - GROUNDWATER SOURCES

Well	Primary Station Code	Satus
Well 2	01S/10W-19K01 S	Standby[2]
Well 3	01S/10W-19Q06 S	Active[1]
Well 4	01S/10W-19Q07 S	Standby

1. Active upon issuance of this permit. Primary source.
2. Active with notice to the Department. Secondary source.

TABLE 2 - OTHER SOURCES AND CONNECTIONS

Source	Primary Station Code	Status
SGVWC[1] Proctor Connection	1910060-015	Active
SGVWC Don Julian Connection	1910060-018	Active
Rowland Connection	1910060-014	Active
City of Industry Connection	1910060-012	Standby
Suburban Connection	1910060-011	Standby

1. San Gabriel Valley Water Company

TABLE 3 - OTHER SAMPLING POINTS

Source	Primary Station Code	Sampling Point
Well 2 or 3	G19/060-VOASEF2	Air Stripper #2 – Effluent
Well 2 or 3	G19/060-VOASIN2	Air Stripper #2 – Influent
Well 2 or 3	G19/060-WETWELL	Wet Well
Well 2 or 3	G19/060-VOASEF2	Air Stripper #1 – Effluent
Well 2 or 3	G19/060-VOASIN1	Air Stripper #2 – Influent
Well 2 or 3	1910060-013	Treatment Plant Effluent
Well 2 or 3	G19/060-SYSTMO1	Hudson Reservoir - Treated
Well 2 or 3	G19/060-ISEPEFF	Post ISEP/Pre RayOx® (SP-5)
Well 2 or 3	G19/060-RAYOXEF	Post RayOx®/Pre Chlorination (SP-6)

3. No sources shall be added and no changes, modifications, or additions in the treatment processes shall be made without written approval from the Department.

4. Operations, maintenance, and monitoring of the treatment facility shall be performed in accordance with manufacturers' operations and maintenance manuals, with a Department approved Operation, Maintenance, and Monitoring Plan (OM&M Plan), and the documents and manuals noted or referenced therein unless otherwise specified by the Department or State regulations. All additions, deletions, or amendments to the OM&M Plan shall be approved by the Department prior to implementation. LPVCWD is responsible for ensuring that the OM&M Plan is, at all times, representative of the operations, maintenance,

and monitoring of the facility and that the appropriate changes to the OM&M Plan are submitted to the Department for approval in a timely manner. There shall be no bypassing of any treatment process at any time.

5. By January 5, 2002, LPVCWD shall submit documentation indicating that the resin utilized in the ISEP® module is a process media approved by the National Sanitation Foundation (NSF) under NSF Standard 61.

6. By January 5, 2002, LPVCWD shall submit documentation indicating that all additives utilized in the treatment process are NSF approved additives under NSF Standard 60.

7. By January 5, 2004, LPVCWD shall provide an alternate source of power (i.e. emergency generator), independent of the current supply, capable of sustaining all treatment facilities and booster stations necessary to supply LPVCWD consumers with a domestic water supply independent of interconnections with other water systems.

8. LPVCWD shall take all necessary actions to minimize vandalism and unauthorized entry to the treatment facility.

9. By August 6, 2001, LPVCWD shall install flow sensors and for the chlorine and hydrogen peroxide metering pumps. The flow sensors shall be electronically connected to LPVCWD's Central Computer System (CCS) with high and low level alarms.

10. By August 6, 2001, LPVCWD shall electronically connect its chlorine residual analyzer to LPVCWD's CCS with high and low level free chlorine concentration alarms.

OPERATION:

11. All plant operators and supervisory personnel involved with the operation or oversight of the treatment facility shall have a copy of and shall be familiar with the OM&M Plan and the conditions of this permit amendment. A copy of the OM&M Plan and the permit shall be maintained at the treatment facility and the LPVCWD office for reference.

12. All treatment facilities shall be operated by personnel who have been certified in accordance with the regulations relating to the certification of water treatment facility operations found in the California Code of Regulations (CCR), Title 17. By March 6, 2002, the superintendent(s) and shift operator(s) for LPVCWD's treatment facility shall have, at minimum, Grade III and Grade II water treatment plant operator certifications from the Department, respectively. The

aforementioned operator certification requirements are applicable unless more stringent state, local, or federal regulations are promulgated.

13. The LPVCWD treatment facility shall not exceed 2500 gpm capacity at any time.

14. The flowrate through Air Stripper 1 and Air Stripper 2 shall not exceed 1000 gpm and 1500 gpm, respectively, at any time.

15. Air Stripper 1 and Air Stripper 2 shall be operated with air/water ratios of at least 30 to 1 and 60 to 1, respectively, on a volumetric basis.

16. The air stripping towers and their appurtenances shall be operated in compliance with the substantive requirements of the South Coast Air Quality Management District. Failure to operate the facility in accordance with the South Coast Air Quality Management District requirements shall render this permit amendment null and void at the discretion of the Department.

17. Following any long-term shutdown, as defined in the most current OM&M Plan, bacteriological sampling of the supply well (Well 2 or 3), Air Stripper 1 effluent, Air Stripper 2 effluent, and the ISEP® unit effluent shall be performed. Results of such sampling shall be free of any indication of bacteriological contamination prior to distribution of the treatment facility's effluent as a domestic water supply.

18. The entire flow from Well 2 or Well 3, whichever is being used as a source of supply, shall be treated by all unit processes of the treatment facility prior to distribution as a domestic water supply. No treatment process shall be bypassed at any time.

19. Unless alternate lamps are approved for use by the Department, all replacement lamps for the RayOx® tower shall be identical to the lamps used during the full scale testing conducted in February 2000. Specifications for replacement lamps shall be specified in the OM&M Plan. The minimum number of lamps utilized for treatment shall be approved by the Department and specified in the OM&M Plan.

WATER QUALITY AND MONITORING:

20. In the event that any constituent, not adequately treated by the current treatment process, is present at the LPVCWD treatment facility influent at a concentration exceeding 10 times its Maximum Contaminant Level (MCL) or Action Level (AL), based on chronic health effects, or exceeding three times its MCL or AL, based on acute health effects, the constituent cannot be treated by blending alone. Additional treatment for removal of the constituent shall be provided and an amended permit shall be received prior to distributing the treated water as a domestic water supply.

21. The LPVCWD treatment facility shall be operated in a manner which optimizes the removal efficiency of the organic compounds which are amenable to air stripping and Ultraviolet (UV) treatment, with the goal of reducing these constituents to less than detectable concentrations in the finished water. If any organic compounds are detected in the treated water, the additive effects of multiple organic contaminants shall be considered. The following equation must be met by the treatment facility effluent:

$$\text{Hazard Index} = \sum_{i=1}^{n} \left\{ \frac{\text{Contaminant Concentration}}{\text{MCL or AL}} \right\}_i \leq 1$$

MCL = Maximum Contaminant Level (State Drinking Water Standard);

AL = Action Level

If an incident occurs in which detectable concentrations of organic constituents are detected in the treated water, LPVCWD shall notify this Department on the same day, unless the Department's office is closed, in which case, notification shall be made by 8:15 a.m. on the next day. A report describing the duration of the incident, the cause of the incident, the steps taken to ensure such an incident does not recur, and the calculations of the hazard index for such incident(s), shall be provided to the Department no later than seven (7) working days after said incident.

22. The Department reserves the right to require additional monitoring of constituents that may be found in the treatment facility effluent not having MCLs or ALs or the Department deems necessary. LPVCWD shall comply with any additional conditions that the Department deems necessary based on the presence of any newly identified constituents.

23. LPVCWD shall immediately begin determination of the capacity of the treatment facility to treat all volatile organic compounds (VOCs) that have exceeded, or subsequently exceed, any MCL or AL in the source water. At a minimum, analytical procedures in combination with the sampling regime noted below (or other Department approved sampling program to determine removal capabilities) shall be utilized to determine the capability and capacity of the air strippers and RayOx® process to remove VOCs.

Sampling regime: Sampling shall consist of weekly sampling and analyses to determine the concentrations of Trichloroethylene (TCE), Perchloroethylene (PCE), Carbon Tetrachloride (CTC), and 1,2-Dichloroethane (1,2-DCA) at the following locations:

1. Raw water (well sample)
2. Air Stripper 1 effluent and Air Stripper 2 effluent

3. SP-4 (post ISEP/pre RayOx®)
4. SP-6 (post RayOx®/pre chlorination)

The presence of a VOC at Location 2 shall necessitate monitoring at Locations 3 and 4. Sampling and analysis for NDMA and 1,4-Dioxane shall also be performed at Location 3 and 4 if VOCs are present at Location 2. After the Department has made the determination that the treatment facility appropriately removes a specific VOC at a particular concentration without adverse effects to the destruction of NDMA or 1,4-Dioxane, the routine sampling noted in the OM&M Plan for such a VOC may resume until such time the concentration in the source water exceeds the previously approved removal concentration. Should the concentration exceed the previously approved removal concentration, the sampling regime and other requirements described in this Provision shall resume.

In the event of the presence of a VOC at Location 4, LPVCWD shall take immediate action that includes, but is not limited to, shut-down of the treatment facility, re-design of one or both of the air strippers, or air stripper performance optimization such as packing material replacement. At no time shall water be served exceeding the MCL or AL concentration for any constituent.

Other VOCs found in the source water at concentrations exceeding their corresponding MCL or AL concentrations shall also immediately begin the sampling regime and other requirements described in this Provision.

24. All water supplied by LPVCWD's treatment facility shall meet all MCLs and ALs established by the Department. If the effluent water quality does not comply with the California Drinking Water Standards, LPVCWD shall not use the treatment facility effluent until the cause of the exceedance is remedied or additional treatment is provided and the Standards are met.

25. Well 3 shall be the primary source of supply for the treatment facility. Well 2 shall only be used in the event that Well 3 is inoperable due to maintenance or repair. The Department shall be contacted within 24 hours, and notified in writing within seven (7) days of use, whenever Well 2 is utilized. Well 2, and Well 3 prior to resuming as the primary source, shall be tested for and found to be free of bacteriological contamination before being utilized as a source.

26. All water quality monitoring analyses for regulatory compliance shall be performed by a laboratory certified by the Department's Environmental Laboratory Accreditation Program (ELAP). All results shall be submitted to the Department utilizing Electronic Data Transfer (EDT) and the PS Codes in Provision 2. If no certified method is available for a particular compound, the method and detection limit shall be submitted for approval by the Department on

a case by case basis. Water samples for operational control purposes may be analyzed by field test kits, continuous analyzers, or benchtop units.

27. Until such time that a formal approval process for NDMA testing laboratories is set forth, NDMA shall be analyzed in accordance with the Department's acceptable analytical approaches guidelines which can be found on the Department's website (www.dhs.ca.gov/ps/ddwem). Once a formal approval process for NDMA testing laboratories is in place, NDMA shall be analyzed by a laboratory certified for such procedures.

28. LPVCWD shall comply with any additional requirements the Department deems necessary based on any newly identified constituents. If necessary, the Department may modify the monitoring provisions specified herein or in the OM&M Plan, based on additional information. LPVCWD may request a modification of any monitoring provision based upon substantiating data at any time.

29. LPVCWD shall require all laboratories performing chemical analyses to use the most current analytical methods promulgated by the Department or the U.S. EPA, unless no such method is available. Should no approved method be available, analyses shall be performed as directed by the Department.

30. The monitoring wells and sampling sites noted in Table 4 shall be sampled and analyzed in order to provide early detection of any new constituents or significant changes of previously identified constituents that may effect the extraction wells. The initial round of sampling under the early detection sampling shall be performed no later than August 2001. Subsequent early warning characterization monitoring shall be performed annually.

TABLE 4: SPECIAL MONITORING SITES

Monitoring Well/Sampling Point	PS Code
VCWD Big Dalton	01S/10W-17N01 S
SGVWC B6C	01S/10W-19L02 S
LPVCWD Well 3	01S/10W-19Q06 S
SP-6 (post RayOx® effluent)	G19/060-RAYOXEF

1. Valley County Water District

If these wells become unavailable, then LPVCWD shall drill replacement monitoring wells or identify other existing representative sources and continue the same monitoring program.

31. Samples from these wells shall be analyzed annually by LPVCWD in accordance with the Characterization Sampling denoted in Table 5 below:

TABLE 5: CHARACTERIZATION SAMPLING TABLE

General Description	Method(s)	Comment
General Mineral/Physical	Various approved methods	None
Full Metals Scan	EPA Method 200.7 or approved methods for the 16 "CAM" metals and Title 22 metals. EPA Method 245.1 for Mercury and EPA Method 218.6 for Hexavalent Chromium.	See Note 7. Utilization of EPA Method 200.8 (ICP/MS) may be necessary Depending on results.
Perchlorate	DHS modified EPA Method 300.0 or EPA Method 314	None
NDMA	No approved method currently in place. Check DHS website for update and guidance.	See note 8. Detection to < 2 ppt. With advance notice, confirmation of samples may be provided by the Department's Lab.
Nitroaromatics and Nitramines	EPA Method 8330	See note 9. Analyze for all 14 compounds listed in method.
Gross Alpha and Beta Radiation	EPA Method 900.0	None
Aldicarbs	EPA Method 531.1	None
Diquat and Paraquat	EPA Method 549.1	None
EDB and DBCP	EPA Method 504.1	None
1,2,3-TCP	Low level 1,2,3-Trichloropropane	See note 5. If required by DHS.
VOCs	EPA Method 524.2 or EPA Method 8260B with MTBE included.	See notes 1, 2, 3, 4, and 10. Consult with DHS on specific method.
Semi-Volatile Organic Chemicals	EPA Method 8270C (all fractions) and modified for 1,4-Dioxane.	See notes 1, 2, 3, 4, 6, 10 and 11.
Title 22 SOCs	Approved Drinking Water	If TICs are identified, confirm

General Description	Method(s)	Comment
	methods capable of meeting Title 22 DLRs.	with other more selective and/or sensitive methods (e.g., EPA Methods 525.2, 8151, 8141, 508, 553, 555, etc.) may be required.

Notes:

1. The analyzing laboratory shall report results at Drinking Water levels if applicable, or at the laboratory's lowest achievable, reproducible, and verifiable reporting limits, whichever are lower. Reporting limits shall be subject to the Department's review, approval, and verification.

2. The laboratory performing the analyses shall be instructed to report all peaks (calibrated and uncalibrated) on chromatographic analyses. Uncalibrated peaks on chromatographic analyses shall be reported if they are greater than ten percent of the nearest internal standard and are not known artifacts produced by the instrument. All uncalibrated peaks that can be identified on the mass spectra shall be identified as "Tentatively Identified Compounds" (TICs). All TICs must be reported to the Department along with the other compounds.

3. The Department may require identification of all unknown peaks shown on GC-MS chromatograms that are not identified by the laboratory's existing library of spectra. This may involve an identification of functional groups or positive identification of the compound(s). Contact the Department for further instructions.

4. If samples need to be diluted for analysis, then the samples should be diluted at the lowest possible dilution for analysis to assure the analytes are reported at the lowest reporting limits.

5. While EPA Method 504.1 lists 1,2,3-TCP as an analyte, the method is not designed for the low level that the Department is seeking. Furthermore, ELAP currently does not certify laboratories for 1,2,3-TCP analysis. Method 504.1 is certified for EDB and DBCP only. The analyzing laboratory shall develop its own method for analyzing low-level 1,2,3-TCP. Laboratories are asked to develop and implement the lowest reporting limit possible or 2 ppt, whichever is less. Currently, a reporting limit of 50 ppt or lower is desired. The Department recommends using EPA method 524.2 with the mass spectrometer in the SIM mode.

6. The laboratory performing method 8270C shall take all necessary precautions to avoid cross contamination of samples. The laboratory shall implement procedures to avoid carry over of contaminants between samples. The laboratory should not batch drinking water samples from this study with soil, wastewater, or other samples that may have high concentrations of analytes of interest. Additional quality control should be implemented to monitor contamination when an auto sampler is used.

7. Analysis for metals shall include all metals listed in Title 22 (i.e., Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Mercury, Nickel, Selenium, Thallium, Copper, Iron, Manganese, Silver, and Zinc.) In addition, analysis shall include all metals which have action levels established by the Department or which have previously been detected in the study area (e.g., Lead, Boron, Lithium, Vanadium, and Cobalt). For laboratories employing the ICP or ICP/MS technique, they shall include in their reports the results for any other metals that are included in the laboratory's calibration standards in addition to the targets analytes listed above.

8. There is no approved method or certification currently in place for the analysis of NDMA. Laboratories are advised to check the DHS website for updated information on this analyte. Laboratories are to use the best available method or technology to achieve the lowest verifiable detection limit, if possible to less than 2 ppt.

9. **Method 8330 from EPA SW-846 (Solid Waste Manual/Hazardous Waste testing) is employed for these analytes because there is no equivalent drinking water method is available for these analytes.**

10. **Methods (8260B and 8270C) from EPA SW-846 (Solid Waste Manual/Hazardous Waste testing) are referenced because of their wider range of analytes (compounds) analyzed. To better characterize the contaminants, a more inclusive list of compounds is needed. See Note 1.**

11. **For the analysis of 1,4-Dioxane, analyzing laboratories are requested to modify EPA Method 8270C to include the analyte.**

32. Each well used as a source of domestic supply shall be sampled, at a minimum, in accordance with the most recent edition of the Vulnerability Assessment and Monitoring Frequency Guidelines prepared by the Department. Previous analytical results may be used to comply with the monitoring requirements and shall be submitted to this Department for review when requesting a waiver.

REPORTING AND RECORD KEEPING:

33. By March 31, 2002, LPVCWD shall submit a technical performance report describing the treatment facility's performance after one year of operation. The report shall include, but not be limited to: compliance with all permit provisions; the treatment plant's status, condition, and performance; a table noting dates and concentrations of each contaminant detected in the plant's effluent and the corresponding source concentration; and a summary of all operational changes and the reasons for such changes.

34. Analytical results of all samples received by LPVCWD in a calendar month shall be reported to the Department no later than the tenth day of the following month.

35. A monthly report of the operation of the LPVCWD facilities shall be submitted to this Department by the 20th day of the following month unless otherwise specified. As a minimum, the report shall include:

    a. Analytical results of all samples received by LPVCWD in a calendar month shall be reported to the Department by the 10th day of the following month.

    b. A summary of all contaminants in the early warning monitoring wells, extraction wells, and treatment plant effluent detected distinguishing those at or above MCLs or Action Levels by the 10th day of the month following the sampling month.

    c. The daily operation, length of time in use, and production of each extraction well.

    d. The daily amount of water processed by the treatment plant.

e. Daily air/water ratio and water flow rate through the two packed tower air strippers.

f. Determinations of tower removal efficiencies for all VOCs, ambient air temperature, and any other compound requested by the Department.

g. Daily minimum and maximum free chlorine residuals of the effluent leaving the treatment plant site and those at the Hudson Reservoir Booster Station.

h. Operational schedule and problems; both scheduled interruptions and any unscheduled interruption.

i. The report shall also include a running summary that includes, but is not limited to, historical high values (since operation of the facility) of all contaminants from each sampling location noted in the monitoring section of the OM&M Plan along with the corresponding effluent concentration, an insert to the OM&M Plan if any change or modification to the OM&M Plan has occurred as a result of the month's activities.

36. Any proposed monitoring and reporting less frequent than that required by the Department shall be approved by the Department in writing prior to implementation.

37. Copies of reports, inspections, operator logs, and all other records shall be kept for at least five (5) years. Water quality records shall be kept for 10 years.

38. LPVCWD shall immediately inform the Department by telephone and fax, of any exceedance of any MCL or Action Level in the effluent of the treatment plant. If the Department is closed at the time, it shall be notified by telephone before 8:15 a.m. of the next day. The water shall not be supplied to the distribution system until such exceedance has been corrected.

39. LPVCWD shall comply with the monitoring requirements of Section 64439 of Title 22. LPVCWD shall not exceed the following concentrations within the distribution system for the following disinfectants or disinfection byproducts listed in Table 6 as determined by Section 64439 or subsequent regulation pertaining to disinfectants or disinfection byproducts.

TABLE 6: DISINFECTANTS/DISINFECTION BYPRODUCTS

Constituent	Maximum Concentration Allowed
Total Trihalomethanes (TTHMs): Chloroform, bromodichloromethane, chlorodibromomethane, and bromoform.	0.080 mg/L

Constituent	Maximum Concentration Allowed
Haloacetic Acids (HAA5): Monochloroacietc acid, dichloroacetic acid, trichloroacetic acid, bromoacetic acid, and dibromoacetic acid	0.060 mg/L
Chlorine	4.0 mg/L

This permit amends and adds to the existing domestic water permit previously granted to LPVCWD on April 29, 1966.

If you have any questions, please contact Heather Collins, Central District Engineer, at 1449 W. Temple St., Room 202, Los Angeles, CA 90026 or telephone (213) 580-3185.

Sincerely,

Vera M. Vecchio

Vera Vecchio, P.E.
Regional Engineer
Los Angeles Region

Enclosure: Engineering Report

c: Stephen B. Johnson
Stetson Engineers, Inc.
3104 East Garvey Avenue South
Suite A
West Covina, CA 91791

Ms. Carol Williams
Main San Gabriel Basin Watermaster
725 North Azusa Avenue
Azusa, California 91702

Mr. Wayne Praskins, Project Manager
U.S. Environmental Protection Agency
75 Hawthorne Street (SFD-7)
San Francisco, California 94105

APPENDIX B

DHS PERMIT NUMBER
04-16-02PA-000

State of California—Health and Human Services Agency
Department of Health Services

California Department of Health Services
DIANA M. BONTÁ, R.N., Dr. P.H.
Director

GRAY DAVIS
Governor

May 8, 2002

La Puente Valley County Water District
15825 East Main Street
La Puente, California 91744

PERMIT AMENDMENT NUMBER: 04-16-02PA-000
WATER SYSTEM NO. 1910060

Application of the La Puente Valley County Water District (hereinafter LPVCWD) dated February 13th, 2002, made in accordance with Section 116550 of the California Health and Safety Code for an amendment to their domestic water supply permit, has been considered by the State Department of Health Services (Department). Enclosed is a copy of an engineering report, dated May 6, 2002, prepared by the Drinking Water Field Operations Branch – Central District.

It is the finding of the State Department of Health Services that the provisions of the California Code of Regulations and the California Health and Safety Code can be met by LPVCWD. This finding is based on the above-mentioned engineering report. A domestic water supply permit amendment is hereby granted to LPVCWD to operate three (3) wells in the Main San Gabriel Basin, to treat the water from these wells with the treatment system as described in the application, and to distribute the treated water from these wells for domestic use, subject to the following provisions:

GENERAL:

1. LPVCWD shall comply with all applicable provisions stated in the Water Permit Amendment No. 04-16-01PA-000 issued by the Department on February 15, 2001. If any provision(s) of this permit amendment conflicts with the February 2001 permit previously issued, the provisions of this amendment shall govern.

2. LPVCWD shall comply with all state laws applicable to public water systems and any regulations, standards, or orders adopted thereunder.

3. All water supplied by the LPVCWD for domestic purposes shall meet all Maximum Contaminant Levels (MCLs) and Action Levels (ALs) established by

Flex your POWER
Do your part to help California save energy. To learn more about saving energy, visit the following web site: www.consumerenergycenter.org/flex/index.html

the State Department of Health Services. If the water quality does not comply with the California Drinking Water Standards, treatment shall be provided. LPVCWD shall not distribute the treatment facility effluent to the public for domestic use until the cause of the exceedance is remedied or additional treatment is provided to meet the standards.

4. LPVCWD's only sources approved for potable water supply are those listed in Tables 1 and 2. The Primary Station Codes associated with the sources of supply are provided in the tables.

Table 1 – Groundwater Sources

Source	Primary Station Code	Status
Well 2	01S/10W-19K01 S	Standby*
Well 3	01S/10W-19Q06 S	Active
Well 4	01S/10W-19Q07 S	Standby

* Secondary source - Active with notice to the Department.

Table 2 – Other Sources and Connections

Source	Primary Station Code	Status
SGVWC Proctor Connection	1910060-015	Active
SGVWC Don Julian Connection	1910060-018	Active
Rowland Connection	1910060-014	Active
City of Industry Connection	1910060-012	Standby
Suburban Connection	1910060-011	Active

5. LPVCWD's only approved treatment facilities and the only approved treatment processes are those listed in Table 3. The Primary Station Codes associated with the approved treatment are listed in Table 4. The Primary Station Codes are to be used for Electronic Data Transmission (EDT).

Table 3 – Approved Treatment

FACILITY	TREATMENT PROCESS	WATER SOURCE
La Puente Treatment Plant	Aeration, Ion Exchange for Perchlorate and Nitrate Removal, UV/Peroxide Treatment for NDMA and 1,4- Dioxane Removal, and Chlorination	Well 2 or 3
Hudson Reservoir	pH Adjustment	Treated Well 2 or 3

Table 4 - Sampling Points

Source	Primary Station Code	Sampling Point
Well 2 or 3	G19/060-VOASIN1	Air Stripper #1 – Influent
Well 2 or 3	G19/060-VOASEF2	Air Stripper #1 – Effluent
Well 2 or 3	G19/060-VOASIN2	Air Stripper #2 – Influent
Well 2 or 3	G19/060-VOASEF2	Air Stripper #2 – Effluent
Well 2 or 3	G19/060-WETWELL	Wet Well No.1
Well 2 or 3	G19/060-ISEPEFF	Post ISEP®/Pre UVTERRA™ (SP-5)
Well 2 or 3	G19/060-UVTERRAEF1	Post UVTERRA™ /Pre Chlorination (SP-5A)
Well 2 or 3	G19/060-UVTERRAEF2	Post UVTERRA™ /Pre Chlorination (SP-5B)
Well 2 or 3	1910060-013	Treatment Plant Effluent (SP-6)
Well 2 or 3	G19/060-SYSTMO1	Hudson Reservoir - Treated
Well 2 or 3	G19/06-MAINSTEFF	Mainstreet Reservoir - Effluent

6. No changes, additions, or modifications shall be made to the sources and treatment facilities unless an amended water supply permit has first been obtained from the Department.

7. All treatment facilities shall be operated by personnel who have been certified in accordance with the Regulations relating to Certification of Water Treatment Facility Operation, Title 17, and California Code of Regulations.

8. LPVCWD shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17 of the California Code of Regulations.

OPERATION:

9. Operations, maintenance, and monitoring of the treatment facility shall be performed in accordance to manufacturers' operations and maintenance manuals and with a Department approved Operation, Maintenance, and Monitoring Plan (OM&M Plan) and the documents and manuals noted therein unless otherwise specified by the Department or State regulations. All additions, deletions, or amendments to the OM&M Plan shall be approved by the Department prior to implementation. LPVCWD is responsible for ensuring that the OM&M Plan is, at all times, representative of the operations, maintenance, and monitoring of the facility and that the appropriate changes to the OM&M Plan are submitted to the Department for approval in a timely manner.

10. LPVCWD shall take all necessary actions to minimize vandalism and unauthorized entry to the treatment facility.

11. All plant operators and supervisory personnel involved with the operation or oversight of the treatment facility shall have a copy of and shall be familiar with the conditions of this permit amendment. A copy of the conditions shall be maintained at both facilities for reference.

12. All treatment facilities shall be operated by personnel who have been certified in accordance with the Regulations relating to Certification of Water Treatment Facility Operation, Title 17, and California Code of Regulations. The superintendent(s) and shift operator(s) for LPVCWD's treatment facility shall have, at minimum, grade T3 and T2 certifications, respectively. The aforementioned operator certification requirements are applicable unless additional stringent state, local, or federal regulation is promulgated.

13. The LPVCWD treatment facility shall not exceed 2,500-gpm capacity at any time.

14. The flowrate through Air Stripper 1 and Air Stripper 2 shall not exceed 1,000 gpm and 1,500 gpm, respectively, at any time.

15. Air Stripper 1 and Air Stripper 2 shall be operated with air/water ratios of at least 30 to 1 and 60 to 1, respectively, on a volumetric basis.

16. The air stripping towers and their appurtenances shall be operated in compliance with the substantive requirements of the South Coast Air Quality Management District.

17. Following any long-term shutdown, as defined in the most current OM&M Plan, bacteriological sampling of the supply well (Well 2 or 3), Air Stripper 1 effluent, Air Stripper 2 effluent, and the ISEP® unit effluent shall be performed. Results of such sampling shall be free of any indication of bacteriological contamination prior to distribution of the treatment facility's effluent as a domestic water supply.

18. The entire flow from Well 2 or Well 3, whichever is being used as a source of supply, shall be treated by all unit processes of the treatment facility prior to distribution as a domestic water supply. No treatment process shall be bypassed at any time.

19. Unless alternate lamps are approved for use by the Department, all replacement lamps for the UVTERRA™ reactor shall be identical to the lamps used during the full scale testing conducted in November 2001. Specifications for replacement lamps shall be specified in the OM&M Plan.

20. LPVCWD shall notify the Department if there is a change in manufacturer name and/or ownership.

21. In the event that any constituent, not adequately treated by the current treatment process, is present at the LPVCWD treatment facility influent at a concentration exceeding 10 times its Maximum Contaminant Level (MCL) or Action Level (AL), based on chronic health effects, or exceeding three times its MCL or AL, based on acute health effects, the constituent cannot be treated by blending alone. Additional treatment for removal of the constituent shall be provided and an amended permit shall be received prior to distributing the treated water as a domestic water supply.

WATER QUALITY AND MONITORING:

22. The Department reserves the right to require additional monitoring of constituents that may be found in the treatment facility effluent not having MCLs or ALs or the Department deems necessary. LPVCWD shall comply with any additional conditions that the Department deems necessary based on the newly identified constituents.

23. Well 3 shall be the primary source of supply for the treatment facility. Well 2 shall only be used in the event that Well 3 is inoperable due to maintenance or repair. The Department shall be notified in writing, within seven (7) days of use, whenever Well 2 is utilized. Well 2, and Well 3 prior to resuming as the primary source, shall be tested for and found to be free of bacteriological contamination before being utilized as a source.

24. All water quality monitoring analyses for compliance shall be performed by a laboratory certified by the Department's Environmental Laboratory Accreditation Program (ELAP). All results shall be submitted to the Department utilizing Electronic Data Transfer (EDT) and the PS Codes in Provision 4. If no certified method is available for a particular compound, the method and detection limit shall be submitted for approval by the Department on a case-by-case basis. Water samples for operational control purposes may be analyzed by field test kits, continuous monitors, or bench-top units.

25. NDMA shall be analyzed in accordance with the Department's acceptable analytical approaches lines which can be found on the Department's website (www.dhs.ca.gov/ps/ddwem).

26. LPVCWD shall comply with any additional requirements the Department deems necessary based on any newly identified constituents. If necessary, the Department may modify the monitoring provisions specified herein based on additional information. LPVCWD may request a modification of any monitoring provision based upon substantiating data at any time.

27. LPVCWD shall require all laboratories performing chemical analyses to use the most current analytical methods promulgated by the Department or the U.S. EPA, unless no such method is available. Should no approved method be available, analyses shall be performed as directed by the Department.

28. The monitoring wells and sampling sites noted in the table below shall be sampled and analyzed in order to provide early detection of any new constituents or significant changes of previously identified constituents that may effect the extraction wells. Early warning characterization monitoring shall be performed annually.

Table 5: Special Monitoring Sites

Monitoring Well/ Sampling Point
VCWD Big Dalton
SGVWC B6C
LPVCWD Well 3
SP-6 (post UVTERRA™ effluent)

If these wells become unavailable, then LPVCWD shall identify or possibly drill replacement-monitoring wells and continue the same monitoring program.

29. Samples from these wells shall be analyzed annually by LPVCWD in accordance with the Characterization Sampling Table below:

Table 6: Characterization Sampling Table

Description	Method(s)	Comment
General Mineral/Physical	Various approved methods	None
Full Metals Scan	EPA Method 200.7 or approved methods for the 16 "CAM" metals and Title 22 metals. EPA Method 245.1 for Mercury and EPA Method 218.6 for Hexavalent Chromium	See Note 7. Utilization of EPA Method 200.8 (ICP/MS) may be necessary depending on results.
Perchlorate	DHS modified EPA Method 300.0 or EPA Method 314	None
NDMA (low level)	No approved method currently in place. Check DHS website for update.	See note 8. Detection to < 2 ppt. With advance notice, confirmation of samples may be provided by the Department's Lab.
Nitroaromatics and Nitramines	EPA Method 8330	See note 9. Analyze for all 14 compounds listed in method.
Gross Alpha and Beta Radiation	EPA Method 900.0	None
Aldicarbs	EPA Method 531.1	None
Diquat and Paraquat	EPA Method 549.1	None
EDB and DBCP	EPA Method 504.1	None
1,2,3-TCP	Low level 1,2,3-Trichloropropane	See note 5. If required by DHS.
VOCs	EPA Method 524.2 or EPA Method 8260B with MTBE included	See notes 1, 2, 3, 4 and 10. Consult with DHS on specific method.
Semi-Volatile Organic Chemicals	EPA Method 8270C (all fractions) and modified for 1,4-Dioxane	See notes 1, 2, 3, 4, 6, 10 and 11.
Title 22 SOCs	Approved Drinking Water methods capable of meeting Title 22 DLRs.	If TICs are identified, confirm with other more selective and/or sensitive methods (e.g., EPA Methods 525.2, 8151, 8141, 508, 553, 555, etc.) may be required.

Notes:

1. The analyzing laboratory shall report results at Drinking Water levels if applicable, or at the laboratory's lowest achievable, reproducible and verifiable reporting limits, whichever are lower. Reporting limits shall be subject to the Department's review, approval and verification.

2. The laboratory performing the analyses shall be instructed to report all calibrated peaks on chromatographic analyses. Uncalibrated peaks on chromatographic analysis shall be reported if they are greater than 10 percent of the nearest internal standard and are not known artifacts produced by the instrument. All uncalibrated peaks that can be identified by the mass spectra shall be identified as "Tentatively Identified Compounds" (TICs). All TICs must be reported to the Department along with the other compounds.
3. If unknown peaks shown on GC-MS chromatograms which are not identified by the laboratory's existing library of spectra, the sample extracts shall be retained and the Department consulted within seven (7) days of the finding. For volatile organic analyses, additional sampling may be required. Following the consultation, and unless instructed otherwise by the Department, the laboratory analyst shall attempt to identify functional groups and/or tentatively identify the compound(s). This attempt shall be made and the Department notified of the results by telephone and fax within 14 days of the discovery of the unknown peaks. The Department may require and allow time for additional work to positively identify the compound(s) and/or additional treatment plant testing (if applicable) to verify removal of the compound(s).
4. If samples need to be diluted for analysis, then the samples should be diluted at the lowest possible dilution for analysis to assure the analytes are reported at the lowest reporting limits.
5. While EPA Method 504.1 lists 1,2,3-TCP as an analyte, the method is not designed for the low level that the Department is seeking. Furthermore, ELAP does not certify laboratories for 1,2,3-TCP analysis. Method 504.1 is certified for EDB and DBCP only. The analyzing laboratory shall develop its own method for analyzing low-level 1,2,3-TCP. Laboratories are asked to develop and implement the lowest reporting limit possible or 2 ppt, whichever is less. Currently, a reporting limit of 50 ppt or lower is desired. The Department recommends using EPA method 524.2 with the mass spectrometer in the SIM mode.
6. Laboratory performing method 8270C shall take all necessary precautions to avoid cross contamination of samples. Laboratory shall implement procedures to avoid carry over of contaminants between samples. The laboratory should not batch drinking water samples from this study with soil, wastewater or other samples that may have high concentrations of analytes of interest. Additional quality control should be implemented to monitor contamination when an auto sampler is used.
7. Analysis for metals shall include all metals listed in Title 22 (i.e., Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Mercury, Nickel, Selenium, Thallium, Copper, Iron, Manganese, Silver and Zinc.) In addition, analysis shall include all metals which have action levels established by the Department or which have previously been detected in the study area (e.g., Lead, Boron, Lithium, Vanadium and Cobalt). For laboratories employing the ICP or ICP/MS technique, they shall include in their reports the results for any other metals that are included in the laboratory's calibration standards in addition to the targets analytes listed above.
8. There is no approved method or certification currently in place for the analysis of NDMA. Laboratories are advised to check the Department's website for updated information on this analyte. Laboratories are to use the best available method or technology to achieve the lowest verifiable detection limit, if possible to less than 2 ppt.
9. Method 8330 from EPA SW-846 (Solid Waste Manual/Hazardous Waste testing) is employed for these analytes because there is no equivalent drinking water method available for these analytes.
10. Methods (8260B and 8270C) from EPA SW-846 (Solid Waste Manual/Hazardous Waste testing) are referenced because of their wider range of analytes (compounds) analyzed. To better characterize the contaminants, a more inclusive list of compounds is needed. See Note 1.
11. For the analysis of 1,4-Dioxane, analyzing laboratories are requested to modify EPA Method 8270C to include the analyte.

30. All known and unknown peaks on the chromatographs shall be reported. The laboratory performing the analyses shall be instructed to report these peaks. All unknown peaks shown on GC-MS spectra of the analysis of the treatment facility effluent shall be tentatively identified and reported to this Department within seven (7) days of such determination. The Department may require that such

peaks be positively identified within 30 days of the tentative determination. The Department shall be notified in writing within seven (7) days of the positive identifications.

31. Analysis for metals shall include all metals listed in Title 22: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, mercury, nickel, selenium, thallium, copper, iron, manganese, silver, and zinc. In addition, analysis shall include all metals which have action levels established by the Department or which have previously been detected in the BPOU. The laboratory shall also report results for any other metals, which may have been otherwise added to the laboratory's ICAP or ICAP/MS instruments, when using those methods.

32. Each well used as a source shall be sampled, at a minimum, in accordance with the most recent edition of the Vulnerability Assessment and Monitoring Frequency Guidelines prepared by the Department. Previous analytical results may be used to comply with the monitoring requirements and shall be submitted to this Department for review when requesting a waiver.

REPORTING AND RECORD KEEPING:

33. By July 1, 2003, LPVCWD shall submit a technical performance report describing the treatment facility's performance after one year of operation with UVTERRA™. The report shall include, but not be limited to: compliance with all permit provisions; the treatment plant's status, condition, and performance; a table noting dates and concentrations of each contaminant detected in the plant's effluent and the corresponding source concentration; and a summary of all operational changes and the reasons for such changes.

34. Analytical results of all samples received by LPVCWD in a calendar month shall be reported to the Department no later than the tenth day of the following month.

35. A monthly report of the operation of the La Puente Wellfield Treatment Facilities shall be submitted to this Department by the 20th day of the following month unless otherwise specified. As a minimum, the report shall include:

    a. Analytical results of all samples received by LPVCWD in a calendar month shall be reported to the Department by the 10th day of the following month.

    b. A summary of all contaminants in the early warning monitoring wells, extraction wells, and treatment plant effluent detected distinguishing those at or above MCLs or Action Levels by the 10th day of the month following the sampling month.

c. The daily operation, length of time in use, and production of each extraction well,

d. The daily amount of water processed by the treatment plant,

e. Daily air/water ratio and water flowrate through the two packed tower air strippers,

f. Determinations of tower removal efficiencies for all VOCs, ambient air temperature, and any other compound requested by the Department,

g. Daily minimum and maximum free chlorine residuals of the effluent leaving the treatment plant site and those at the Hudson Reservoir Booster Station,

h. Operational schedule and problems; both scheduled interruptions and any unscheduled interruption,

i. The report shall also include a running summary that includes, but is not limited to, historical high values (since operation of the facility) of all contaminants from each sampling location noted in the monitoring section of the OM&M Plan along with the corresponding effluent concentration, an insert to the OM&M Plan if any change or modification to the OM&M Plan has occurred as a result of the month's activities.

36. Any monitoring and reporting that is less frequent than what is outlined in this permit amendment and OM&M Plan shall require prior approval by the Department.

37. Copies of reports, inspections, operator logs, and all other records shall be kept for at least five (5) years. Water quality records shall be kept for 10 years.

38. LPVCWD shall immediately inform the Department by telephone and fax, of any exceedance of any MCL or Action Level in the effluent of the treatment plant. If the Department is closed at the time, it shall be notified by telephone before 8:15 a.m. of the next day. The water shall not be supplied to the distribution system until such exceedance has been corrected.

This permit amends and adds to the existing domestic water permit previously granted to LPVCWD on April 29, 1966.

Please contact this office at (213) 580-5723 if you have any questions and/or comments concerning this permit amendment.

Sincerely,

Heather L. Collins

Heather L. Collins, P.E.
District Engineer
Central District

Enclosures

cc: Mr. Stephen B. Johnson
Stetson Engineers, Inc.
3104 East Garvey Avenue South
Suite A
West Covina, CA 91791

Ms. Carol Williams
Main San Gabriel Basin Watermaster
725 North Azusa Ave
Azusa, California 91702

Mr. Wayne Praskins, Project Manager
U.S. Enviromental Protection Agency
75 Hawthorne Street (SFD-7)
San Francisco, California 94105

APPENDIX C

AQMD PERMIT
AND
OPERATION AND MAINTENANCE PLAN
FOR
AIR STRIPPING TOWER
CARBON CHANGE OUT

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

page 1
Permit No.
F54651
A/N 400734

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

LEGAL OWNER OR OPERATOR: LA PUENTE VALLEY COUNTY WATER DISTRICT
15825 E MAIN ST
LA PUENTE, CA 91744

ID 091364

Equipment Location: 1695 PUENTE AVE, BALDWIN PARK, CA 91706

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISING OF:

1. CARBON ADSORBER, GAS PHASE, CANNISTER TYPE, CALGON CORP., 10'-0" DIA. X 8'9" H., WITH 7000 POUNDS OF ACTIVATED CARBON.

2. EXHAUST SYSTEM WITH A 40 H.P. BLOWER VENTING ONE AIR STRIPPER.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3) THE VOLATILE ORGANIC COMPOUND (VOC) CONCENTRATION AT THE OUTLET OF THE FIRST CARBON UNIT SHALL BE CONTINUOUSLY MEASURED. THE OPERATOR SHALL USE A FLAME IONIZATION DETECTOR (FID) CALIBRATED IN PARTS PER MILLION BY VOLUME (PPMV) HEXANE.

4) THE ACTIVATED CARBON IN THE FIRST ADSORBER SHALL BE MONITORED AND SHALL BE IMMEDIATELY REPLACED WHEN THE CONCENTRATION OF ORGANIC VAPORS IN THE EXHAUST GAS EXCEEDS 0.049 PARTS PER MILLION, BY VOLUME (PPMV) MEASURED AS HEXANE.

5) RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITIONS ABOVE, THE RECORDS SHALL BE KEPT IN A FORMAT APPROVED IN WRITING BY THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD). THE RECORDS SHALL BE MAINTAINED FOR AT LEAST TWO YEARS, AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.

ORIGINAL

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

page 2
Permit No.
F54651
A/N 400734

CONTINUATION OF PERMIT TO OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M. Bailey

By Dorris M. Bailey/sc06
8/29/2002

ORIGINAL

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

page 1
Permit No.
F52944
A/N 400735

RECEIVED SEP

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

LEGAL OWNER OR OPERATOR: LA PUENTE VALLEY COUNTY WATER DISTRICT
15825 E MAIN ST
LA PUENTE, CA 91744

ID 091364

Equipment Location: 1695 PUENTE AVE, BALDWIN PARK, CA 91706

Equipment Description:

WATER TREATMENT SYSTEM CONSISTING OF:

1. EXTRACTION WELL NO. 4, 0'- 6" DIA. X 743'-0" DEEP.

2. AIR STRIPPER, PACKED TOWER TYPE, HYDRO GROUP INC., MODEL NO. PCS-115.24, 9'-7" DIA. X 41-0" H., WITH A 24 FT. PACKED BED.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3) THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A PERMIT TO CONSTRUCT OR PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.

4) THE LIQUID FLOW RATE OF THE AIR STRIPPER SHALL NOT EXCEED 1500 GALLONS PER MINUTE.

5) THIS EQUIPMENT SHALL ONLY BE USED TO EXTRACT AND TREAT THE CONTAMINANTS IN THE GROUNDWATER LISTED IN CONDITION NO. 6 OF THIS PERMIT.

ORIGINAL

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO OPERATE

CONTINUATION OF PERMIT TO OPERATE

6) THE CONTAMINANTS IN THE GROUNDWATER ENTERING THE AIR STRIPPER SHALL NOT EXCEED THE FOLLOWING LIMITS:

TRICHLOROETHYLE (TCE)	10.5 PPBV
PERCHLOROETHYLENE (PCE)	0.5 PPBV
FREON 12,	12.5 PPBV
C-1,2-DICHLOROETHENE	0.5 PPBV
CHLOROFORM	0.8 PPBV
1,2-DICHLOROETHANE	7 PPBV
TOLUENE	8 PPBV
1,1-DICHOROETHANE	3 PPBV
1,1-DICHLOROETHENE	5 PPBV
CHLOROETHANE	2 PPBV
1,4-DIOXANE	0.75 PPBV

7) THE GROUNDWATER ENTERING THE AIR STRIPPER SHALL BE ANALYZED AND RECORDED MONTHLY TO VERIFY COMPLIANCE WITH THE CONCENTRATION LIMITS IN CONDITION NO. 6.

8) RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT. THE RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

9) A FLOW METER SHALL BE INSTALLED AND MAINTAINED TO MEASURE THE WATER FLOW RATE INTO THE AIR STRIPPER IN GALLONS PER MINUTE.

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M. Bailey

By Dorris M. Bailey/sc06
6/20/2002

ORIGINAL

August 7, 2002

Mr. Mike Berlien
General Manager
La Puente Valley County Water District
15825 E. Main Street
La Puente, CA 91744

Re: Operation and Maintenance Plan for Carbon Change-Out

Dear Mr. Berlien:

As we discussed, we have completed developing an operation and maintenance plan for the water treatment plant located on La Puente Avenue. As you know, this plant has, among other things, two air strippers with carbon vessels with a total capacity of 2,500 GPM. The purpose of this work was to determine the time for saturation of the carbon beds for various compounds in order to provide a change-out schedule for vapor-phase granular activated carbon (GAC) adsorbers on each stripper. The carbon adsorbers contain 7,000 and 20,000 pounds of GAC, respectively. These are referred to as the "Small" and "Large" vessels.

Each adsorber was sampled 8 times from April 11 to June 19, 2002. Fresh carbon was installed on February 14, 2002. The system ran intermittently since that time. Based on our conversation, system uptime was estimated at 75 percent for the subject period.

The vessels were sampled using stainless steel Summa canisters. Each canister is evacuated and cleaned prior to sampling by a State-certified laboratory. Summa canisters are the gold standard for grab sampling non-reactive samples because they do not suffer from ultra-violet degradation and they are impervious to diffusion. For low concentration samples such as those present here, they are the optimal sampling method. Each canister was analyzed using USEPA Method TO-14 (Gas Chromatograph/Mass Spec [GC/MS]). Raw laboratory data is shown in Appendix A. Figures 1 and 2 summarize the data for the Small and Large Vessels.

The following maximum chemical concentrations are present in the influent:

- Trichloroethylene: 120 ppbv
- Perchloroethylene: 30 ppbv
- Freon 12: 5 ppbv
- c-1,2-Dichloroethene: 5 ppbv
- Chloroform: 6 ppbv
- 1,2-Dichloroethane: 7 ppbv
- Toluene: 8 ppbv
- Carbon Tetrachloride: 3 ppbv
- 1,1-Dichloroethane: 3 ppbv
- Methylene chloride: 3 ppbv
- 1,1-Dichloroethene: 5 ppbv
- Chloroethane: 2 ppbv

Figure 1. Large Carbon Vessel Emissions

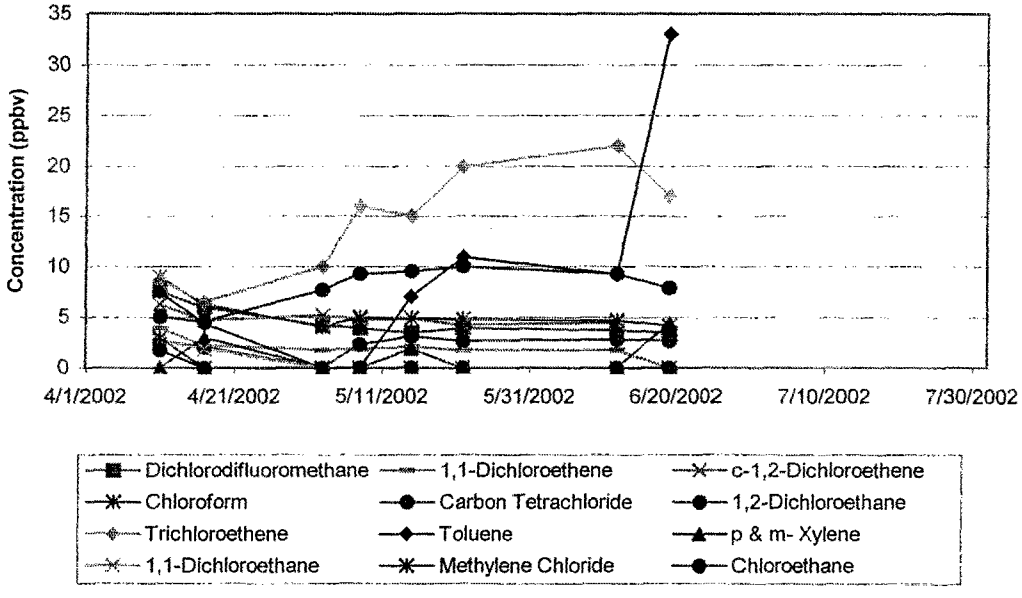
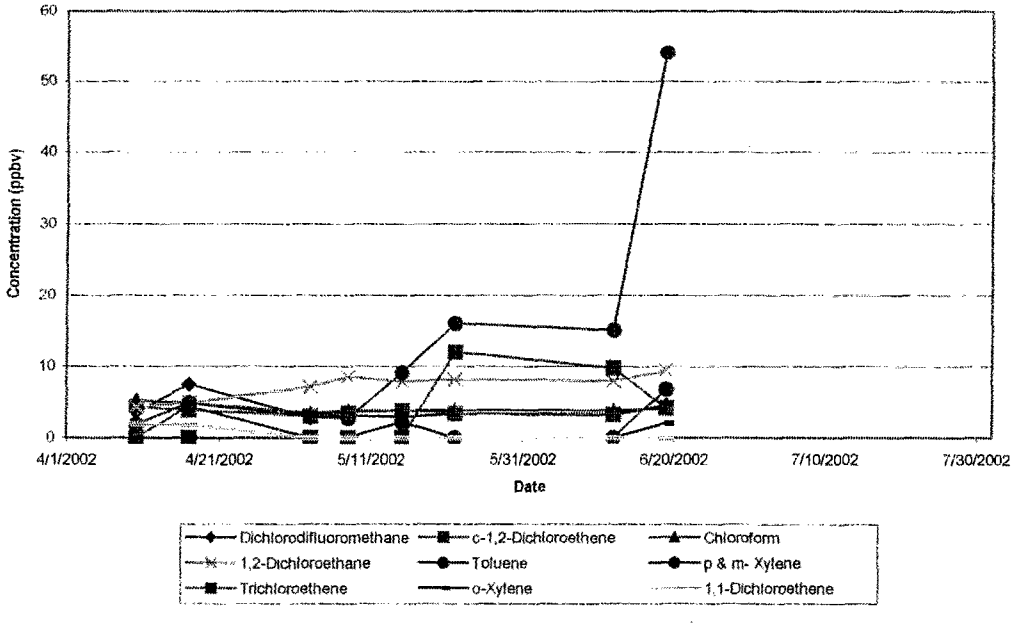


Figure 2. Small Carbon Vessel Emissions



355 NORTH SHERIDAN, SUITE 103 • CORONA, CALIFORNIA • 92880
Phone: 909-739-9593 • Fax: 909-739-9594

Findings and Recommendations

The results indicate the following:

- TCE was used as the indicator chemical for saturation of the GAC. The data indicates the carbon in the large vessel was saturated in less than 83 days. The data indicates the carbon in the small vessel was saturated in 97 days.

- Carbon usage equates to 0.11 pounds of GAC per 1,000 gallons treated at the average breakthrough point. If the carbon were changed at 80 percent of this point, carbon usage would equate to 0.14 pounds per 1,000 gallons treated.

- Low boiling point compounds (such as 1,2-DCA, 1,1-DCE, etc.) broke through rapidly. They were present in all samples at influent concentrations.

- The large carbon vessel appears undersized for the current flow rate. TCE was present intermittently at approximately 10 percent of influent concentrations. Additional control measures need to be implemented to meet AQMD permit guidance. These include the addition of another vessel, implementation of humidity control, the use of coconut shell carbon, or a change in emission control technology.

- Based on my conversations with the AQMD, the new permits will require quarterly effluent monitoring. Fresh carbon will be required if the outlet concentration is approximately 9 ppbv TCE. During continuous operation and after correction for the large carbon vessel as mentioned above, the adsorbers will exceed this criteria at approximately 80 days. A conservative approach calls for carbon change outs every 70-75 days; however, the minimum change out required by the new permit because of the monitoring frequency will be 90 days.

- Per your instructions, fresh carbon was installed on July 1, 2002. Based on the data, the next change out should be scheduled between September 9 and October 1, 2002.

Thank you for the opportunity to work with you on this project. Please contact me at 909-739-9593 or 909-453-0975 if I can assist you in any way.

Sincerely,

Matthew McCullough, P.E.
Principal Engineer

Attachments

355 NORTH SHERIDAN, SUITE 103 • CORONA, CALIFORNIA • 92880
Phone: 909-739-9593 • Fax: 909-739-9594

Client: MC Squared
Attn: Irene Bakman

Client's Project: LPVCWD
Date Received: 04/10/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2041005-01									
Client Sample I.D.:		Effluent from Small Carbon Ves.									
Date Sampled:		04/10/02									
Date Analyzed:		04/10/02									
QC Batch No:		020410MS2A1									
Analyst Initials:		SC									
Dilution Factor:		1.7									
ANALYTE	MDL	Result	RL								
Dichlorodifluoromethane (12)	1.0	3.6	1.7								
Chloromethane	2.0	ND	3.4								
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.7								
Vinyl Chloride	1.0	ND	1.7								
Bromomethane	1.0	ND	1.7								
Chloroethane	1.0	ND	1.7								
Trichlorofluoromethane (11)	1.0	ND	1.7								
1,1-Dichloroethene	1.0	1.9	1.7								
1,1,2-Cl 1,2,2-F ethane (113)	1.0	ND	1.7								
Methylene Chloride	1.0	ND	1.7								
1,1-Dichloroethane	1.0	ND	1.7								
c-1,2-Dichloroethene	1.0	4.3	1.7								
Chloroform	1.0	5.2	1.7								
1,1,1-Trichloroethane	1.0	ND	1.7								
Carbon Tetrachloride	1.0	ND	1.7								
Benzene	1.0	ND	1.7								
1,2-Dichloroethane	1.0	4.3	1.7								
Trichloroethene	1.0	ND	1.7								
1,2-Dichloropropane	1.0	ND	1.7								
c-1,3-Dichloropropene	1.0	ND	1.7								
Toluene	1.0	1.8	1.7								
t-1,3-Dichloropropene	1.0	ND	1.7								
1,1,2-Trichloroethane	1.0	ND	1.7								
Tetrachloroethene	1.0	ND	1.7								
1,2-Dibromoethane	1.0	ND	1.7								
Chlorobenzene	1.0	ND	1.7								
Ethylbenzene	1.0	ND	1.7								
p,4m-Xylene	1.0	ND	1.7								
o-Xylene	1.0	ND	1.7								
Styrene	1.0	ND	1.7								
1,1,2,2-Tetrachloroethane	2.0	ND	3.4								
1,3,5-Trimethylbenzene	2.0	ND	3.4								
1,2,4-Trimethylbenzene	2.0	ND	3.4								
1,3-Dichlorobenzene	1.0	ND	1.7								
1,4-Dichlorobenzene	1.0	ND	1.7								
1,2-Dichlorobenzene	1.0	ND	1.7								
1,2,4-Trichlorobenzene	2.0	ND	3.4								
Hexachlorobutadiene	1.0	ND	1.7								

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: [signature] for Mark Johnson
Air Toxics Operations Manager

Date 04-11-02

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020410MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/10/02		04/10/02		04/10/02						
Data File ID:	10APR006.D		10APR004.D		10APR005.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.9	109	2.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.3	113	12.2	122	7.3	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	8.2	82	3.5	70	130	30	Pass
Toluene	0.0	10.0	8.8	88	8.9	89	1.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.8	78	8.2	82	5.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 04-11-02

for Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

CHAIN OF CUSTODY RECORD

Pg ____ of ____

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130
City of Industry, CA 91748
626-964-4032 • Fax: 626-964-5832

FOR LABORATORY USE ONLY:

P.O.#: ____

Logged By: ____ Date: ____ Time: ____

Method of Transport: Walk-in ☒ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt: 1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐ 2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐ 3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: MC2
Attn:
Address:
City State Zip Code
TEL: (909) 739 9593
FAX: (909) 739 9594

Project Name: LPVCWD
Project #:
Sampler: (Printed Name) Irene Bakman (Signature)

Relinquished by: (Signature and Printed Name) Irene Bakman Date: 4/10/02 Time: 1130
Received by: (Signature and Printed Name) Joann DelaOsa ATL Date: 4/10/02 Time: 1325
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Irene Bakman 4/10/02
Print Name Date
Irene Bak
Signature

Send Report To:
Attn: Irene Bakman
Co: MC2 Env Eng
Address 3567 Belvedere City
City Corona State CA Zip 91720

Bill To:
Attn:
Co:
Address
City State Zip

Special Instructions/Comments:

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal
☐ Laboratory Standard
☐ Other ____
☐ Return To: ____
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested

CIRCLE APPROPRIATE MATRIX

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D.	Date	Time	8081 / 8082 (Pesticides/PCB-GC)	8260 (Volatiles-GC/MS)	625 / 8270 (BNA-GC/MS)	Metals-Total (CAC-6010 / 7000)	8015M TPH/GBTEX (GC/MS/NATION)	8015M TPH/O (Diesel-GC)	TCH	SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	AR04005-01	Effluent from Small Carbon Vs	4/10	1150							X								B	1	M		

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

04/11/02 THU 14:51 FAX 6269645832 Air Technology Labs

CHAIN OF CUSTODY RECORD

Pg ____ of ____

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130
City of Industry, CA 91748
626-964-4032 • Fax: 626-964-5832

FOR LABORATORY USE ONLY:

P.O.#: ____

Logged By: ____ Date: ____ Time: ____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt: 1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐ 2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐ 3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: MC2
Attn: Irene Bakman
Address: 3567 Belvedere Circle
City: Corona State: CA Zip Code: 92882
TEL: (909) 739 9593
FAX: (909) 739 9797

Project Name: LPVCWD Project #: Sampler: (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name) Irene Bakman Date: 4/17/02 Time: 10:35 Received by: (Signature and Printed Name) [signature] Date: 4/17/02 Time: 10:45

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below.
Project Mgr /Submitter: Irene Bakman 4/17 (Print Name, Date)
Signature: Irene Bakman

Send Report To: Attn: ____ Co: ____ Address ____ City ____ State ____ Zip ____

Bill To: Attn: ____ Co: ____ Address ____ City ____ State ____ Zip ____

Special Instructions/Comments: due Friday morning 4/19/02

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other ____ ☑ Return To: ____

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC) | 8260 (VOA/BTEX 624/8260) | 624 / 8270 (BNA-GC/MS) | Metals-Total (CAC-6010 / 7000) | 8015M (TPH-GASOLINE) | 8015M TPH/D (Diesel-GC) | TO 14

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE | OIL • SOLVENT • LIQUID | WATER • WASTEWATER | DRINKING WATER | AIR | WIPE • FILTER | OTHER

QA/QC: RINE ☑ RWQCB ☐ VIP ☐ NAVY ☐ CT ☐ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D.	Date	Time	8081 / 8082	8260	624 / 8270	Metals	8015M	8015M TPH/D	TO 14	TAT	#	Type	PRESERVATION	REMARKS
	4204 1786-01	Carbon Vessel - Small #2									X	C				
	02	Carbon Vessel - Large #1									X	C				

* TAT starts 8 am, following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

04/19/02 FRI 12:09 FAX 6269645832 Air Technology Labs 002

APPENDIX D

WELL NO. 2 ACTIVATION NOTIFICATION LETTER

August 15, 2002

Ms. Sutida Bergquist
Department of Health Services
Drinking Water Field Operations Branch
1449 West Temple Street, Room 202
Los Angeles, CA 90026

RE: ACTIVATION OF WELL 2

Dear Ms. Bergquist:

This letter serves to notify the Department of the District's activation of Well 2 pursuant to Provision 23 of the District's Permit Amendment No. 04-16-02PA-000. Please find attached a copy of the Well 2 bacteriological sampling showing Well 2 free of bacteriological contaminates. The District will be operating Well 2 and Well 3 in parallel during the summer months due to loss of production from Well 3. Well 2 is being operated at 800 gpm and Well 3 is being operated at 1,600 gpm. During the routine weekly sampling regime, the District will alternate sampling of each well (SP-1) until informed otherwise by the Department.

If you have any questions, please do not hesitate to call.

Sincerely,

Michael J. Berlien
General Manager

APPENDIX E

SODIUM HYDROXIDE NSF CERTIFICATION AND MSDS

NSF Product and Service Listings

These Listings were Last Updated on **Wednesday, June 04, 2003** at 4:15 AM Eastern Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

Warning: NSF is concerned about fraudulent downloading and manipulation of website text. If you have received this listing in hard copy, always confirm this certification/listing information by going directly to http://www.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=PPG+Industries%2C+Inc%2E&ChemicalName=Sodium+Hydroxide&PlantState=California+CA&PlantCountry=UNITED+STATES& for the latest most accurate information.

ANSI/NSF STANDARD 60
Drinking Water Treatment Chemicals - Health Effects

Cert-Link® (Click here to visit this Company's Website)

PPG INDUSTRIES, INC.

ONE PPG PLACE
PITTSBURGH, PA 15272
800-245-2974
412-434-2887

Plant at: DISTRIBUTION CENTER - RICHMOND, CA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda-10%	Corrosion & Scale Control	1000mg/L
Caustic Soda-12.5%	Corrosion & Scale Control	800mg/L
Caustic Soda-15%	Corrosion & Scale Control	667mg/L
Caustic Soda-18%	Corrosion & Scale Control	556mg/L
Caustic Soda-20%	Corrosion & Scale Control	500mg/L

Caustic Soda-25%	Corrosion & Scale Control	400mg/L
Caustic Soda-30%	Corrosion & Scale Control	333mg/L
Caustic Soda-35%	Corrosion & Scale Control	286mg/L
Caustic Soda-50%	Corrosion & Scale Control	200mg/L
Sodium Hydroxide-10%	Corrosion & Scale Control	1000mg/L
Sodium Hydroxide-12.5%	Corrosion & Scale Control	800mg/L
Sodium Hydroxide-15%	Corrosion & Scale Control	667mg/L
Sodium Hydroxide-18%	Corrosion & Scale Control	556mg/L
Sodium Hydroxide-20%	Corrosion & Scale Control	500mg/L
Sodium Hydroxide-25%	Corrosion & Scale Control	400mg/L
Sodium Hydroxide-30%	Corrosion & Scale Control	333mg/L
Sodium Hydroxide-35%	Corrosion & Scale Control	286mg/L
Sodium Hydroxide-50%	Corrosion & Scale Control	200mg/L

Number of matching Manufacturers is 1
Number of matching Products is 18
Processing time was 0 seconds

Copyright © 2002 NSF International

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Liquid Caustic Soda, 50%
PRODUCT ID: 82798
SYNONYMS: Liquid Caustic Soda; Sodium Hydroxide; NaOH
ISSUE DATE: 11/06/2000
EDITION NO.: 17

PPG Industries, Inc.
One PPG Place, Pittsburgh, PA 15272, USA
24-hour Emergency Telephone Number: 1-304-843-1300
For Product Information (8am-5pm Eastern time):
1-800-243-6774 (C/A)

PREPARER: Product Safety, Chemicals

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material/CAS Number	Percent
Sodium Hydroxide 1310-73-2	50
Water 7732-18-5	50

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER! Corrosive - Causes severe burns to eyes and skin.

Precautions: Do not get in eyes, on skin, or on clothing. Corrosive to skin. Even a small amount in the eye can cause blindness. Do not swallow. Avoid breathing dusts or mists from solutions. Use only with adequate ventilation. Ventilation must be sufficient to limit employee exposure to this product below permissible exposure limits. When making solutions or diluting, only add caustic soda slowly to surface of cold water while stirring. Do not add to warm or hot water, a violent eruption or explosive reaction can result. Avoid contact with organic materials and concentrated acids - may cause violent reactions. Caustic soda reacts with magnesium, aluminum, zinc (galvanized), tin,

chromium, brass and bronze, generating hydrogen which is explosive. Caustic soda may react with various sugars to generate carbon monoxide. Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed vessels and can cause death. Wash thoroughly after handling. Do not eat, drink or smoke in work area. Liquid caustic soda is shipped hot (100-180 F). Avoid skin contact -- can cause thermal burns.

4. FIRST AID MEASURES

INHALATION: Move person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. If breathing is difficult, give oxygen. Call a physician.

EYE/SKIN CONTACT: In case of contact, immediately flush eyes and skin with plenty of water (soap and water for skin) for at least 15 minutes, while removing contaminated clothing and shoes. Hold eyelids open during this flushing with water. Call a physician. If skin feels slippery, this product may still be present in sufficient quantities to cause rash or burn. Continue washing until slick skin feeling is gone. Thoroughly clean contaminated clothing and shoes before reuse or discard.

INGESTION: If swallowed, give at least 3-4 glasses of water or acidic beverages (tomato or orange juice, carbonated soft drinks). Do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention.

NOTES TO PHYSICIAN:
Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: None

EXTINGUISHING MEDIA: Not applicable.

SPECIAL FIREFIGHTING PROCEDURES: Contact with some metals (particularly magnesium, aluminum and galvanized zinc) can rapidly generate hydrogen, which is explosive.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Only trained personnel equipped with NIOSH approved, full facepiece combination dust/mist respirators should be permitted in area. For dry material, use appropriate methods, shovels, brooms, and vacuums to clean up the spill. If mixed with water, or likely to become mixed with water or any liquid, dike area to contain spill. Reclaim if possible. Or, dilute spill with large amounts of water then neutralize with dilute acid. Use vacuum truck to pick up neutralized material for proper disposal. Properly neutralized liquid residues (pH 6 to 9) may be disposed of in waste water treatment facilities which allow the discharge of neutral salt solutions. After all visible traces have been removed, flush

area with large amounts of water.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:
Wear appropriate personal protective equipment. Never touch eyes or face with hands or gloves that may be contaminated with this product. When making solutions or diluting, only add caustic soda slowly to surface of cold water while stirring. Do not add to warm or hot water, a violent eruption or explosive reaction can result. Avoid contact with organic materials and concentrated acids - may cause violent reactions. Caustic soda reacts with magnesium, aluminum, zinc (galvanized), tin, chromium, brass and bronze, generating hydrogen which is explosive. Caustic soda may react with various sugars to generate carbon monoxide. Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed vessels and can cause death. Follow appropriate tank entry procedures (see ANSI Z117.1 - 1977). Do not enter a storage tank or container (truck or rail) that has contained this product, even if it appears empty. Liquid caustic soda is shipped hot (100-180 °F). Avoid skin contact -- can cause thermal burns.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:
8-hour Time Weighted Average (TWA); 15-minute Short-Term Exposure Limit (STEL)

OSHA: 2 mg/cu.m. Ceiling. 29 CFR 1910.1000 (Rev. 3/1/89).

RESPIRATORY PROTECTION: Use a NIOSH approved dust/mist filter respirator for all routine activities when exposure to dusts/mists exceed the permissible exposure limits. The respiratory use limitations made by NIOSH or the manufacturer must be observed. Respiratory protection programs must be in accordance with 29 CFR 1910.134.

VENTILATION: Use local exhaust sufficient to maintain dust/mist levels below permissible exposure limits.

EYE AND FACE PROTECTION: Close fitting chemical safety goggles with faceshield.

PROTECTIVE GLOVES: Nitrile. Neoprene. Natural rubber.

OTHER PROTECTIVE EQUIPMENT: Rubber boots with safety toes, rubber aprons, PVC clothing, and plastic hard hats should be used when necessary to prevent skin contact. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.132 (general requirements), .133 (eye and face protection), and .138 (hand protection).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: ..... 142°C

VAPOR DENSITY (Air=1): NA
SPECIFIC GRAVITY (Water=1): 1.530 @ 60/60°F
pH: Strongly basic
FREEZING/MELTING POINT: 5-11°C (41-51°F)
SOLUBILITY (wt.% in water): 347g/100g water @ 100°C
BULK DENSITY: 12.76 lbs/gal @ 60°F
VOLUME % VOLATILE: 50
VAPOR PRESSURE: 1 mm Hg
EVAPORATION RATE: NA
HEAT OF SOLUTION: Exothermic
PHYSICAL STATE: Liquid
ODOR: Odorless
COLOR: Water white to slightly turbid

10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (CONDITIONS/MATERIALS TO AVOID):
Contact with organic materials and concentrated acids may cause violent reactions. Contact with magnesium, aluminum, galvanized zinc, tin, chromium, brass and bronze generates explosive hydrogen. Reactions with various food sugars may form carbon monoxide.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION LC50: Corrosive
SKIN IRRITATION: Corrosive.
EYE IRRITATION: Corrosive.
ACUTE ORAL LD50: LDLo (rabbit) 500 mg/kg. Corrosive.

CHRONIC EFFECTS/CARCINOGENICITY: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

MEDICAL CONDITIONS AGGRAVATED: None known.

EFFECTS OF OVEREXPOSURE:

ACUTE:

Eye/Skin: Causes severe burns to the eyes. Small quantities can result in permanent damage and/or loss of vision. For skin contact, corrosive action causes burns and frequently deep ulcerations with subsequent scarring. Prolonged contact destroys tissue. Dust or mist from solutions can cause irritant dermatitis.

Ingestion: Ingestion either in solid or liquid form can cause very serious damage to the mucous membranes or other tissues with which contact is made, and may be fatal.

Inhalation: Inhalation of dusts or mists can cause damage to the upper respiratory tract and to the lung tissue depending on severity of exposure. Effects can range from mild irritation of mucous membranes, severe pneumonitis and destruction of lung tissues.

CHRONIC: The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:
Highly toxic to aquatic life. 240 ug/l (BluegIII) 96-hour TLM LC50

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:
PPG recommends disposal of dry residues in an approved hazardous waste management facility or by neutralizing and disposing of according to local or permitted regulations. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, as well as any other relevant Federal, State, or local laws/regulations regarding disposal.

14. TRANSPORT INFORMATION

USA DOT DESCRIPTION:

Proper Shipping Name:	Sodium Hydroxide, Solution
Hazard Class:	8 (Corrosive)
Identification Number:	UN1824
Packing Group:	II
Reportable Quantity:	1000 lbs./454 kg

15. REGULATORY INFORMATION

USA TSCA: This product is listed on the TSCA Inventory.

PPG: 82798 Liquid Caustic Soda, 50% 11/06/2000

EUROPE EINECS: This product is listed on EINECS.
CANADA DSL: This product is listed on the Canadian DSL.
AUSTRALIA AICS: This product is listed on AICS.
KOREA ECL: This product is listed on ECL.
JAPAN MITI (ENCS): This product is listed on MITI.

SARA TITLE III:
SARA (311, 312) Hazard Class:
Acute Health Hazard. Reactive Hazard.
SARA (313) Chemicals:
Not listed.
SARA Section 302:
Not listed as an Extremely Hazardous Substance.

CERCLA HAZARDOUS SUBSTANCE:
Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with a reportable quantity of 1000 pounds. Releases to air, land or water which exceed the RQ must be reported to the National Response Center, 800-424-8802.

CANADA REGULATIONS (WHMIS): Class E - Corrosive Material. Sensitization to product: None known. Reproductive toxicity: None known. Odor threshold: No odor. Product use: Neutralization, chemical processing.

HAZARD RATING SYSTEM (HMIS/NFPA):
Health 3, Flammability 0, Reactivity 1

16. OTHER INFORMATION

Other Information:
NSF Drinking Water Treatment Chemicals Listing - PPG sodium hydroxide/caustic soda is certified for maximum use at 200 mg/l under ANSI/NSF Standard 60.

In case of emergency in Canada, contact PPG Canada, Inc., B.P.2010, Beauharnois, Quebec J6N 3C3, 450-429-3552, or Canutec 613-996-6666.

The following has been revised since the last issue of this MSDS:
Date. Edition. Section 2 has been updated. Section 15 has been updated. Section 16 has been updated.

Previous revision date: 10/15/1997
Previous edition number: 016

NA = Not Available

NSF International (NSF)
DRINKING WATER ADDITIVES UNAUTHORIZED REGISTERED FORMULATION
UNAUTHORIZED REGISTERED FORMULATION - STANDARD 60
TOXICOLOGY INFORMATION SHEET

DCC: DA00257
Verified By: [illegible]
(0520)

Page 1 of 2
Issue Date 30-JAN-03

Corp. No. 36630
Plant No. OW321

Company Name FPG INDUSTRIES, INC.
Plant Address 305 HENRY FORD AVENUE
SAN PEDRO CA 90731

Chemical Name Sodium Hydroxide

Trade Designation	Max Use mg/L
Caustic Soda-50%	200
Sodium Hydroxide-50%	200

Function: Corrosion & Scale Control

Physical State L

NSF INFORMATION ONLY

For Auditors:
Additional Comments
This is a repackage of a Certified product.

AUDIT ACTIVITIES

Samples To Collect _____

PPG INDUSTRIES, INC. (36630)
DA00257 Caustic Soda-50%

Plant #: 0N321 Plant At: SAN PEDRO, CA

Chemical Description	Trade Name	Supplier	PPM/PPB
SODIUM HYDROXIDE	ANY NSF CERTIFIED SODIUM HYDROXIDE 50%	PPG INDUSTRIES, INC.	100%

Reviewing Toxicologist 10-JAN-03

APPENDIX F

ORTHO/POLY PHOSPATES BLEND
NSF CERTIFICATION
AND MSDS

NSF Product and Service Listings

These Listings were Last Updated on **Wednesday, June 04, 2003** at 4:15 AM Eastern Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

Warning: NSF is concerned about fraudulent downloading and manipulation of website text. If you have received this listing in hard copy, always confirm this certification/listing information by going directly to http://www.nsf.org/Certified/PwsChemicals/Listings.asp?Company=49790&Standard=060& for the latest most accurate information.

ANSI/NSF STANDARD 60
Drinking Water Treatment Chemicals - Health Effects

Cert-Link® (Click here to visit this Company's Website)

CALCIQUEST INC.

181 WOODLAWN AVENUE
BELMONT, NC 28012
800-929-6789
704-822-1441

Plant at: BELMONT, NC

Blended Phosphates

Trade Designation	*Product Function*	*Max Use*
CQ-4	Corrosion & Scale Control	27 mg/L
CQ-US	Corrosion & Scale Control	27 mg/L
CQ-US 2	Corrosion & Scale Control	27 mg/L
CalciQuest 4060	Corrosion & Scale Control	27 mg/L
CalciQuest 5050	Corrosion & Scale Control	27 mg/L
CalciQuest Liquid LS	Corrosion & Scale Control	27 mg/L

CalciQuest Liquid N	Corrosion & Scale Control	27 mg/L
CalciQuest TKO	Corrosion & Scale Control Sequestering	25 mg/L
CalciQuest-Dry	Corrosion & Scale Control	11 mg/L
CalciQuest-Dry 1090	Corrosion & Scale Control Sequestering	11 mg/L
CalciQuest-Dry 2080	Corrosion & Scale Control	11 mg/L
CalciQuest-Dry 2575	Corrosion & Scale Control Sequestering	11 mg/L
CalciQuest-Dry 5050	Corrosion & Scale Control Sequestering	11 mg/L
CalciQuest-Dry 8515	Corrosion & Scale Control Sequestering	11 mg/L
CalciQuest-Dry 9010	Corrosion & Scale Control Sequestering	11 mg/L
CalciQuest-Dry SE 7525	Corrosion & Scale Control Sequestering	10 mg/L
CalciQuest-Dry ST	Corrosion & Scale Control Sequestering	10 mg/L
CalciQuest-Liquid	Corrosion & Scale Control	27 mg/L
CalciQuest-Liquid 1090	Corrosion & Scale Control Sequestering	27mg/L
CalciQuest-Liquid 2575	Corrosion & Scale Control Sequestering	25 mg/L
CalciQuest-Liquid 8515	Corrosion & Scale Control Sequestering	25 mg/L
Quantichem 2	Corrosion & Scale Control	11mg/L
Quantichem 336	Corrosion & Scale Control Sequestering	25mg/L
Quantichem 40 Dry	Corrosion & Scale Control Sequestering	11mg/L
Quantichem 436	Corrosion & Scale Control	27mg/L
Quantichem 5	Corrosion & Scale Control	27mg/L
Quantichem 536	Corrosion & Scale Control	27mg/L
Quantichem-1	Corrosion & Scale Control Sequestering	11 mg/L
Quantichem-3	Corrosion & Scale Control	11 mg/L

PRODUCT DATA SHEET

PRODUCT:	**CalciQuest-Liquid - 8515**
BENEFIT:	Orthophosphate content forms a film on metals to reduce corrosion. Polyphosphate content sequesters iron, manganese and calcium, which reduces staining.
PHYSICAL DESCRIPTION:	Clear, colorless liquid with no foreign odor.
MAXIMUM USE LEVEL:	27.7 mg/l
TYPICAL VALUES:	Based on materials tested in our laboratories.

Specific Gravity @ 25 degrees C/15.5 degrees C	1.36
Phosphate Content (as PO4)	36%
Polyphosphate Content (as PO4)	30%
Orthophosphate Content (as PO4)	6%
Lbs. per gallon	11.4

PACKAGING:	5, 15, 30 and 55 gallon drums and 4000 gallon tanker truck loads.
CERTIFICATIONS:	Certified by the National Sanitation Foundation to conform to ANSI/NSF Standard 60. State approvals available upon request.

MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION

TRADE NAME:	**CalciQuest-Liquid - 8515**
CAS NUMBER:	N/A - Blend
CHEMICAL NAME:	Stabilized Blend of Long Chain Phosphates
FORMULA:	Proprietary

FIRST AID MEASURES

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

HAZARDS INFORMATION

Health

Inhalation:	No known risk of overexposure.
Ingestion:	Ingestion of CalciQuest-Liquid 8515 may cause nausea. Ingestion of CalciQuest-Liquid 8515 as recommended in potable water presents no known risk of overexposure. Possible irritation of exposed tissue due to individual sensitivity. Possible irritation to eyes if exposed to CalciQuest-Liquid 8515 due to individual sensitivity.

Fire and explosion

Flash Point:	None
Auto Ignition Temperature:	None
Flammable limits:	N/A
Unusual fire and explosion hazards:	None

PRECAUTIONS & PROCEDURES

Fire extinguishing agents recommended: This product is an aqueous solution. Even after the water boils off, the byproducts present minimal hazards.

Fire extinguishing agents to avoid: N/A

Special fire fighting precautions: None.

Ventilation: Standard general ventilation is sufficient.

Normal handling: To avoid individual sensitivity to material, wear gloves and protective clothing when handling.

Storage: Store in a cool, dry place. Keep container tightly closed during transport and storage.

Spill or Leak: CalciQuest-Liquid 8515 is not a hazardous waste. Mop up spill and pour waste solution down the drain.

Special Precautions/Procedures/Label Instructions: None

PERSONAL PROTECTIVE EQUIPMENT:

Wear gloves and protective clothing to protect against individual sensitivities to CalciQuest-Liquid 8515

PHYSICAL DATA

Material is: (At normal conditions):	Liquid
Appearance & Odor:	Clear to slight haze - no odor.
Specific Gravity:	1.355
Boiling Point:	220 degrees Fahrenheit
Vapor Density:	N/A
Solubility in water:	100%
pH:	6.0 +/- 0.3

REACTIVITY DATE:

Stability:	Stable
Conditions to avoid:	None
Incompatibility (materials to avoid):	None
Hazardous decomposition products:	None
Hazardous polymerization:	Will not occur
Conditions to avoid:	Not established

HAZARDOUS INGREDIENTS (MIXTURES ONLY)

None

ENVIRONMENTAL

No phosphate component of CalciQuest-Liquid 8515 has tested worse than:
96-hour LC 50 Bluegill: 6500 ppm practically non-toxic
96-hour LC50 Trout: 3200 ppm practically non-toxic

EPA hazardous?	*No*
Waste Disposal methods:	*Sanitary Sewer*
RCRA status:	*Not hazardous*

REFERENCES:

Registry of Toxic Effects of Chemical Substances, National Institute of Occupational Safety and Health

Merck Index, Tenth Edition

ADDITIONAL INFORMATION:

None

APPENDIX G

TECHNICAL MEMORANDUM FOR RED WATER

McGuire
Environmental
Consultants, Inc.

"Quality services that ensure safe drinking water"

DRAFT TECHNICAL MEMORANDUM

TO: Baldwin Park Operable Unit Project Committee

FROM: Jim Leserman and Michael J. McGuire

DATE: May 2, 2003

SUBJECT: La Puente Valley County Water District
Red Water Problem

Purpose

This technical memorandum describes the problems that the La Puente Valley County Water District (LPVCWD) encountered related to red and yellow colored water at certain service connections within the service area. The analyses performed by McGuire Environmental Consultants, Inc. (MEC) are presented, as well as the actions recommended by MEC.

Background

LPVCWD received numerous complaints from customers regarding yellow and red tap water. The problem appeared to originate in old galvanized steel lines, which constitute about 50 percent of the plumbing within the LPVCWD service area. The corrosivity of the product water increased as a result of the successful implementation of perchlorate removal at Well No. 3. In addition to removing perchlorate, the ion exchange process has removed other species, including carbonate and bicarbonate, resulting in a lower pH and more corrosive product water that enters the distribution system. The water produced in the treatment process appeared to destabilize existing corrosion deposits in galvanized steel pipes.

LPVCWD logged 52 telephone complaints about red and yellow water between March 2001 and August 2002. The District also took a written survey of its 2,500 customers in the winter of 2002. About 400 customers responded. About half of these respondents complained of colored water.

Approach

In 2001 McGuire Environmental Consultants, Inc. (MEC) was engaged to investigate the problem and to propose solutions. To remedy the problem, MEC initially evaluated water quality data to determine the aggressiveness of the water. The RTW Model for Corrosion Chemistry and Water Process (Version 3.0) was used to calculate the Langelier Index (LI). This index is based on the effect of pH on the equilibrium solubility of calcium carbonate ($CaCO_3$). A negative LI indicates an aggressive, corrosive water; an LI of around zero is neutral or stable; and a positive LI indicates conditions that would lead to precipitation of calcium carbonate and deposition of scale on galvanized pipes. In general, the RTW Model is used to evaluate the effects of chemical addition on the stability of the water and to predict changes in water quality parameter such as pH and calcium carbonate precipitation potential.

Results

Table 1 summarizes the water quality data analyzed in 2000 and the output of the RTW Model. The finished water was corrosive with a negative Langelier Index ranging between –0.8 and –1.1. This suggests that the corrosive water may have contributed to the problem. Our evaluation of the data lead to the conclusion that significantly raising the finished water pH by addition of caustic soda (sodium hydroxide) as a first step to control iron release from the distribution system pipes.

Table 1
Summary of Water Quality
and RTW Model Output Data

	Sample Location	SP-6	SP-6	SP-6	ISEP effluent
	Sample Date	9/11/00	7/10/00	Spring 2000*	Spring 2000*
Water Characteristics	**Unit**				
Measured TDS	mg/L	510	340	409	424
Measured temperature	deg C	21	21	21	21
Measured pH		6.82	7.1	7	7
Measured alk, as CaCO3	mg/L	56	46	66	68
Measured Ca, as CaCO3	mg/L	152.5	145	147.5	155
Measured Cl	mg/L	150	140	150	150
Measured SO4	mg/L	0	3.4	0.21	0.21
Calculated values:					
Alk/(Cl+SO4)		0.4	0.3	0.4	0.5
Precipitation potential	mg/L	-28.76	-12.69	-20.75	-20.85
Langelier Index		-1.1	-0.89	-0.84	-0.81
Caustic soda addition	mg/L	14.6	6.7	11.4	11.6
After caustic soda addition:					
Calculated values:					
Interim alkalinity	mg/L	74	54	80	83
Interim Ca, as CaCO3	mg/L	153	145	148	155
Alk/(Cl+SO4)		0.5	0.4	0.5	0.5
Interim pH		8.32	8.44	8.3	8.26
Precipitation potential		4.45	2.89	4.75	4.98
Langelier Index		0.53	0.53	0.55	0.54
Note:					
SP-6 = sample location after 2. Rayox tower					
* = Water quality parameter from Calgon Carbon's full-scale testing of ISEP and Rayox at the La Puente well site					

The addition of sodium hydroxide in a range of 6-15 mg/L was anticipated to increase the pH to a level between 8.2 and 8.4, as presented in Table 1, within the pH target range. However, we did recommend that the chemical feed system be sized for a dynamic range between 2-30 mg/L of sodium hydroxide to provide the appropriate safety factor and operational flexibility. The addition of sodium hydroxide between 6 and 15 mg/L caused the Langlier Index to increase to values between +0.5 and +0.6. The precipitation index after sodium hydroxide addition showed values between 4 and 5 except for the sample taken on 7/10/00, which was considered in the desired range (between 4 and 10). Subsequently, LPVCWD installed a caustic soda storage tank and feed system. In August 2001 LPVCWD began addition of NaOH. The NaOH is stored in a 900 gallon tank and is conveyed by a 94 gpd variable speed pump to the clearwell from which the water is pumped to the distribution system. Currently, the pump is operating at 40 % capacity, delivering NaOH at a rate of about 35 gpd.

Customer complaints decreased, but were still occasionally received. So MEC next considered the addition of corrosion inhibitors to further reduce or eliminate corrosion. The corrosion inhibitors considered consisted of orthophosphate and polyphosphate blends. They prevent further corrosion from occurring and keep the scale deposited on the interior pipe walls from breaking loose into the distribution system or customers' plumbing. Orthophosphate forms a film on interior pipe walls to reduce corrosion by entrapping the scale. Polyphosphate sequesters iron, manganese, and calcium, therby reducing staining from colored water.

Previously, MEC had favorable results using a 10% orthophosphate, 90% polyphosphate blend for corrosion control studies in Tampa Florida and Tucson Arizona. This blend was especially successful in the Tucson study at a pH of 8.5. However, manufacture of this particular blend was discontinued. A 10% ortho, 90% poly blend offered by Vulcan Chemical was not NSF certified at time of evaluation, so it was not used.

MEC evaluated various blends of orthophosphate and polyphosphate: Vulcan Chemical supplied the inhibitors tested as follows

V-Guard Liquid 1090 (10% ortho, 90% poly)
V-Guard Liquid 1585 (15% ortho, 85% poly)
V-Guard Liquid 2575 (25% ortho, 75% poly

MEC recommended the V-Guard Liquid 1585 (15% ortho, 85% polyphosphate blend). On May 15, 2002 LPVCWD began the addition at a dosage rate of 4 mg/L (as phosphate). The phosphate is stored in a 27 cubic foot drum and is added downstream of the treatment plant with a 45 gpd variable speed pump. Currently the pump is injecting the corrosion inhibitor at about 60% of capacity at a rate of 25 gpd into the Hudson Reservoir before the Hudson booster stations pumps it into the distribution system.

Following the introduction of corrosion inhibitor, water quality samples were taken at the Hudson and Main Street Reservoirs and at two residences where colored water had been detected—442 Del Valle Avenue and 15809 San Jose Avenue on May 15, June 19, July 18, July 31, August 14, October 8, and November 6, 2002. Data are available from the San Jose Avenue address from a January 18, 2002 sampling event before the corrosion inhibitor was added. As presented in Table 2, the iron concentrations at the Del Valle residence ranged from 21 to 1,000 μg/L. At the San Jose Avenue residence it ranged from non-detect (less than 20 μg/L) to 980 μg/L, as compared to a "first draw" sample result of 1,400 μg/L in January 2002. The samples from August 14, 2002 are not being used because the finished water, as reported in the two reservoirs, had iron concentrations of well over 3,000 μg/L, indicating that the source of iron was not related to the corrosivity of the finished water.

In the November 2002 monitoring event, no samples exceeded the secondary iron standard of 300 μg/L. Moreover customer complaints decreased significantly after addition of the inhibitor, as presented in Table 3. No complaints were received in May, most of June, July, and since the beginning of August.

Conclusions and Recommendations

The dual strategy of maintaining a higher pH and the application of a polyphosphate corrosion inhibitor has been effective in stabilizing iron concentrations. Even if optimum conditions exist, iron can still break off the pipe and be detected in large concentrations during the first flush after the water has been unused for a long time. But the lack of complaints in the last five months demonstrates the effectiveness of the implemented strategy.

Based on the results we recommended the following:

- Maintain the pH between 8.2 and 8.4 by adding sodium hydroxide
- Continue to add the 4 mg/L blend of 15% Ortho-/85% Polyphosphate
- After three more months of monthly sampling, reduce the sampling frequency to quarterly.

Other systems with similar problems could benefit from similar treatment. The various physical and chemical parameters would need to be reviewed to ensure that appropriate treatment would be implemented.

Table 2
La Puente Valley County Water District
Water Quality Analyses
1/02-11/02

	1/18/2002 First Draw	1/18/2002 After 30 secs.	5/15/02	6/19/02	7/18/02	7/31/02	8/14/02	10/8/02	11/6/02
Hudson Reservoir									
pH	-	-	8.27	8.50	8.13	7.85	8.16	7.30	7.89
TDS (mg/L)	-	-	450	490	460	510	500	420	530
Alkalinity (mg/L as CaCO3)	-	-	74	74	65	62	66	69	79
Total Hardness (mg/L as CaCO3)	-	-	200	200	190	190	180	210	190
Turbidity (NTU)	-	-	<0.10	0.35	0.24	0.27	0.30	0.35	<0.10
Calcium (mg/L)	-	-	55	56	54	55	50	58	55
Iron (µg/L)	-	-	<20	340	28	<20	3,000	<20	<20
Dissolved Iron (µg/L)	-	-	<20	<20	<20	<20	<20	<20	<20
Chloride (mg/L)	-	-	140	150	150	150	150	1650	140
Sulfate (mg/L)	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ortho-Phosphate (mg/L as P)	-	-	<0.30	0.73	<0.05	0.59	0.65	0.19	<0.050
Total acid-hydrolyzable P (mg/L)	-	-	<0.05	0.72	<0.05	0.48	0.20	0.44	<0.050
Main Street Reservoir									
pH	-	-	7.97	8.23	8.18	8.04	8.19	8.72	7.92
TDS (mg/L)	-	-	450	440	460	500	500	440	540
Alkalinity (mg/L as CaCO3)	-	-	73	100	64	61	61	63	79
Total Hardness (mg/L as CaCO3)	-	-	190	200	190	190	180	160	200
Turbidity (NTU)	-	-	<0.10	0.26	0.54	1.3	5.1	12.0	0.13
Calcium (mg/L)	-	-	54	56	54	54	50	41	55
Iron (µg/L)	-	-	<20	230	75	88	4,700	250	<20
Dissolved Iron (µg/L)	-	-	<20	<20	<20	<20	<20	<20	<20
Chloride (mg/L)	-	-	150	120	150	150	150	170	150
Sulfate (mg/L)	-	-	<0.50	42	0.82	<0.50	<0.50	1.2	<0.50
Ortho-Phosphate (mg/L as P)	-	-	<0.30	0.40	0.40	0.60	0.75	0.31	0.26
Total acid-hydrolyzable P (mg/L)	-	-	<0.05	0.32	0.46	0.49	0.11	0.43	0.49
442 Del Valle									
pH	-	-	7.94	8.11	8.17	8.16	8.25	8.51	7.87
TDS (mg/L)	-	-	440	430	470	480	500	420	550
Alkalinity (mg/L as CaCO3)	-	-	69	100	190	65	62	61	80
Total Hardness (mg/L as CaCO3)	-	-	180	210	65	190	180	160	200
Turbidity (NTU)	-	-	0.36	0.26	4.7	1.4	1.6	1.8	0.53
Calcium (mg/L)	-	-	51	55	54	54	51	40	56
Iron (µg/L)	-	-	230	21	620	490	39	1,000	250
Dissolved Iron (µg/L)	-	-	<20	<20	<20	<20	27	<20	<20
Chloride (mg/L)	-	-	140	110	150	150	150	160	150
Sulfate (mg/L)	-	-	1	45	1.2	0.54	<0.50	1.2	<0.50
Ortho-Phosphate (mg/L as P)	-	-	<0.30	0.39	0.40	0.61	0.88	0.33	0.29
Total acid-hydrolyzable P (mg/L)	-	-	<0.05	0.20	0.36	0.65	0.059	0.260	0.42
15809 San Jose									
pH	7.76	7.77	8.14	8.56	8.21	8.05	8.31	9.26	7.96
TDS (mg/L)	410	390	440	490	470	520	500	340	550
Alkalinity (mg/L as CaCO3)	73	78	69	73	66	63	64	46	79
Total Hardness (mg/L as CaCO3)	200	200	180	200	190	190	180	120	200
Turbidity (NTU)	1.3	1.1	0.41	0.26	0.88	3.5	3.5	1.8	0.21
Calcium (mg/L)	57	57	51	55	54	56	48	22	56
Iron (µg/L)	1,400	570	270	600	320	980	2,900	300	<20
Dissolved Iron (µg/L)			21	<20	<20	<20	<20	<20	<20
Chloride (mg/L)	150	150	140	150	150	150	150	160	150
Sulfate (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50	<0.50
Ortho-Phosphate (mg/L as P)	-	-	<0.30	0.74	0.27	0.61	0.67	0.31	0.085
Total acid-hydrolyzable P (mg/L)	-	-	<0.05	0.61	0.19	0.75	0.14	0.43	0.085

Table 3
La Puente Valley Water District
Colored Water Complaints
2001-2002

1	3/6/2001	15818 VICTORIA
2	3/30/2001	425 WARINGWOOD
3	4/16/2001	257 ROUNDABOUT
4	4/19/2001	15660 HUDSON
5	4/20/2001	551 NO. GLENDORA
6	4/24/2001	15807 LAS VECINAS
7	4/27/2001	16204 INYO
8	4/30/2001	15801 FALLEN LEAF
9	5/7/2001	15801 LAS VECINAS
10	5/15/2001	16173 BLUEBONNET
11	5/21/2001	15747 TEMPLE
12	5/23/2001	900 HACIENDA
13	5/24/2001	201 PLEASANTHOME
14	5/24/2001	150 HUDSON
15	5/31/2001	602 GAYLAWN
16	6/4/2001	15821 MONTANA
17	6/22/2001	214 SHAY
18	7/26/2001	15834 HILL
	pH adjustment implemented 8/01	
19	8/3/2001	15844 HILL
20	8/15/2001	548-552 NO. 5TH
21	8/21/2001	305 ROUNDABOUT
22	9/4/2001	450 FERRERO
23	9/4/2001	16335 BAMBOO
24	9/5/2001	537 AZUSA
25	9/5/2001	16207 BAMBOO
26	9/5/2001	227 ROUNDABOUT
27	9/7/2001	15626 RAUSCH
28	9/12/2001	243 COMMON
29	9/17/2001	16635 RORIMER
30	9/21/2001	15938 HILL
31	9/28/2001	220 BANBRIDGE
32	9/28/2001	645 BANBRIDGE
33	10/3/2001	15836 VICTORIA
34	10/4/2001	15827 VICTORIA
35	10/22/2001	16620 RORIMER
36	11/7/2001	307 BANBRIDGE
37	11/20/2001	300 PLEASANTHOME
38	11/29/2001	635 ROXHAM
39	11/30/2001	17341 HURLEY
40	1/4/2002	15626 RAUSCH
41	1/16/2002	15940 PICTON
42	1/17/2002	16009 SAN JOSE
43	2/1/2002	331 ROUNDABOUT
44	2/12/2002	15626 RAUSCH
45	2/12/2002	321 COMMON
46	2/15/2002	15521 TEMPLE
47	3/5/2002	227 ROUNDABOUT
48	3/11/2002	15871 SIERRA VISTA
	Corrosion inhibitor introduced 5/15/02	
49	6/21/2002	16703 NORTHAM
50	6/24/2002	161 SO. HACIENDA
51	8/1/2002	15834 WORKMAN
52	8/7/2002	707 NO. GLENDORA

APPENDIX H

EPA MONITORING WELL DATA

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50101-042502	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	4/25/02	5/3/02	N
BP-GW-MW50101-042502	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/25/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50101-042502	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	N-Nitroso-dimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	4/25/02	5/3/02	N
BP-GW-MW50101-042502	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Perchlorate	3	<	ug/L	3	EPA 314		Weck	4/25/02	5/7/02	N
BP-GW-MW50101-042502	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Tetrachloroethene	1	<	ug/L	1	EPA 8260B	127-18-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Trichloroethene	1	<	ug/L	1	EPA 8260B	79-01-6	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50101-042502	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/25/02	5/2/02	N
BP-GW-MW50102-042602	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	4/26/02	5/3/02	N
BP-GW-MW50102-042602	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/26/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50102-042602	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	N-Nitroso-dimethylamine	5.5		ng/L	2	EPA 1625M	62-75-9	Weck	4/26/02	5/3/02	Y
BP-GW-MW50102-042602	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Perchlorate	3	<	ug/L	3	EPA 314		Weck	4/26/02	5/7/02	N
BP-GW-MW50102-042602	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Tetrachloroethene	1	<	ug/L	1	EPA 8260B	127-18-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Trichloroethene	1	<	ug/L	1	EPA 8260B	79-01-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50102-042602	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/26/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50103-042602	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	4/26/02	5/3/02	N
BP-GW-MW50103-042602	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	N-Nitroso-dimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	4/26/02	5/3/02	N
BP-GW-MW50103-042602	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Perchlorate	3	<	ug/L	3	EPA 314		Weck	4/26/02	5/7/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50103-042602	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Tetrachloroethene	1	<	ug/L	1	EPA 8260B	127-18-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Trichloroethene	1	<	ug/L	1	EPA 8260B	79-01-6	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50103-042602	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/26/02	5/2/02	N
BP-GW-MW50104-042902	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	4/29/02	5/8/02	N
BP-GW-MW50104-042902	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/29/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50104-042902	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	N-Nitrosodimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	4/29/02	5/8/02	N
BP-GW-MW50104-042902	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Perchlorate	3	<	ug/L	3	EPA 314		Weck	4/29/02	5/7/02	N
BP-GW-MW50104-042902	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Tetrachloroethene	1	<	ug/L	1	EPA 8260B	127-18-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Trichloroethene	2.3		ug/L	1	EPA 8260B	79-01-6	Weck	4/29/02	5/2/02	Y
BP-GW-MW50104-042902	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50104-042902	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/29/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50105-042902	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	4/29/02	5/8/02	N
BP-GW-MW50105-042902	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	N-Nitrosodimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	4/29/02	5/8/02	N
BP-GW-MW50105-042902	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Perchlorate	3	<	ug/L	3	EPA 314		Weck	4/29/02	5/7/02	N
BP-GW-MW50105-042902	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Tetrachloroethene	1	<	ug/L	1	EPA 8260B	127-18-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Trichloroethene	1	<	ug/L	1	EPA 8260B	79-01-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50105-042902	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/29/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50106-042902	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	4/29/02	5/8/02	N
BP-GW-MW50106-042902	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Carbon tetrachloride	4.3		ug/L	1	EPA 8260B	56-23-5	Weck	4/29/02	5/2/02	Y
BP-GW-MW50106-042902	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/29/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50106-042902	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	N-Nitrosodimethylamine	3		ng/L	2	EPA 1625M	62-75-9	Weck	4/29/02	5/8/02	Y
BP-GW-MW50106-042902	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Perchlorate	5.2		ug/L	3	EPA 314		Weck	4/29/02	5/7/02	Y
BP-GW-MW50106-042902	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Tetrachloroethene	1	<	ug/L	1	EPA 8260B	127-18-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Trichloroethene	7		ug/L	1	EPA 8260B	79-01-6	Weck	4/29/02	5/2/02	Y
BP-GW-MW50106-042902	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50106-042902	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/29/02	5/2/02	N
BP-GW-MW50107-043002	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,2-Dichloroethane	1.6		ug/L	1	EPA 8260B	107-06-2	Weck	4/30/02	5/2/02	Y
BP-GW-MW50107-043002	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	1,4-Dioxane	2.2		ug/L	0.5	EPA 8270M	123-91-1	Weck	4/30/02	5/8/02	Y
BP-GW-MW50107-043002	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/30/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50107-043002	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Carbon tetrachloride	3.4		ug/L	1	EPA 8260B	56-23-5	Weck	4/30/02	5/2/02	Y
BP-GW-MW50107-043002	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Chloroform	1.5		ug/L	1	EPA 8260B	67-66-3	Weck	4/30/02	5/2/02	Y
BP-GW-MW50107-043002	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	cis-1,2-Dichloroethene	1.2		ug/L	1	EPA 8260B	156-59-4	Weck	4/30/02	5/2/02	Y
BP-GW-MW50107-043002	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	N-Nitrosodimethylamine	180		ng/L	2	EPA 1625M	62-75-9	Weck	4/30/02	5/8/02	Y
BP-GW-MW50107-043002	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Perchlorate	33	H	ug/L	3	EPA 314		Weck	4/30/02	5/8/02	Y
BP-GW-MW50107-043002	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Tetrachloroethene	1.5		ug/L	1	EPA 8260B	127-18-4	Weck	4/30/02	5/2/02	Y
BP-GW-MW50107-043002	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Trichloroethene	72		ug/L	1	EPA 8260B	79-01-6	Weck	4/30/02	5/2/02	Y
BP-GW-MW50107-043002	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50107-043002	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/30/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50108-043002	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	1,4-Dioxane	0.73		ug/L	0.5	EPA 8270M	123-91-1	Weck	4/30/02	5/8/02	Y
BP-GW-MW50108-043002	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Chloroform	1.2		ug/L	1	EPA 8260B	67-66-3	Weck	4/30/02	5/2/02	Y
BP-GW-MW50108-043002	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	N-Nitrosodimethylamine	24		ng/L	2	EPA 1625M	62-75-9	Weck	4/30/02	5/8/02	Y
BP-GW-MW50108-043002	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Perchlorate	12		ug/L	3	EPA 314		Weck	4/30/02	5/8/02	Y

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50108-043002	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Tetrachloroethene	1.6		ug/L	1	EPA 8260B	127-18-4	Weck	4/30/02	5/2/02	Y
BP-GW-MW50108-043002	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Trichloroethene	16		ug/L	1	EPA 8260B	79-01-6	Weck	4/30/02	5/2/02	Y
BP-GW-MW50108-043002	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50108-043002	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	1,4-Dioxane	0.81		ug/L	0.5	EPA 8270M	123-91-1	Weck	4/30/02	5/8/02	Y
BP-GW-MW50109-043002	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	4/30/02	5/2/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50109-043002	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Chloroform	1.1		ug/L	1	EPA 8260B	67-66-3	Weck	4/30/02	5/2/02	Y
BP-GW-MW50109-043002	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	N-Nitrosodimethylamine	31		ng/L	2	EPA 1625M	62-75-9	Weck	4/30/02	5/8/02	Y
BP-GW-MW50109-043002	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Perchlorate	17		ug/L	3	EPA 314		Weck	4/30/02	5/8/02	Y
BP-GW-MW50109-043002	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Tetrachloroethene	1.3		ug/L	1	EPA 8260B	127-18-4	Weck	4/30/02	5/2/02	Y
BP-GW-MW50109-043002	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Trichloroethene	17		ug/L	1	EPA 8260B	79-01-6	Weck	4/30/02	5/2/02	Y
BP-GW-MW50109-043002	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50109-043002	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	4/30/02	5/2/02	N
BP-GW-MW50110-050102	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/1/02	5/9/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50110-050102	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	5/1/02	5/11/02	N
BP-GW-MW50110-050102	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	N-Nitroso-dimethylamine	3.6		ng/L	2	EPA 1625M	62-75-9	Weck	5/1/02	5/18/02	Y
BP-GW-MW50110-050102	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Perchlorate	6.7		ug/L	3	EPA 314		Weck	5/1/02	5/8/02	Y
BP-GW-MW50110-050102	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Tetrachloroethene	1.4		ug/L	1	EPA 8260B	127-18-4	Weck	5/1/02	5/9/02	Y
BP-GW-MW50110-050102	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Trichloroethene	8.8		ug/L	1	EPA 8260B	79-01-6	Weck	5/1/02	5/9/02	Y
BP-GW-MW50110-050102	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50110-050102	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/1/02	5/9/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50111-050102	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	1,4-Dioxane	0.7		ug/L	0.5	EPA 8270M	123-91-1	Weck	5/1/02	5/11/02	Y
BP-GW-MW50111-050102	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	cis-1,2-Dichloroethene	1.1		ug/L	1	EPA 8260B	156-59-4	Weck	5/1/02	5/9/02	Y
BP-GW-MW50111-050102	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/1/02	5/9/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50111-050102	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	N-Nitroso-dimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	5/1/02	5/18/02	N
BP-GW-MW50111-050102	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Perchlorate	3	<	ug/L	3	EPA 314		Weck	5/1/02	5/8/02	N
BP-GW-MW50111-050102	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Tetrachloroethene	2.3		ug/L	1	EPA 8260B	127-18-4	Weck	5/1/02	5/9/02	Y
BP-GW-MW50111-050102	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Trichloroethene	1.5		ug/L	1	EPA 8260B	79-01-6	Weck	5/1/02	5/9/02	Y
BP-GW-MW50111-050102	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50111-050102	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/1/02	5/9/02	N
BP-GW-MW50112-050202	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	1,4-Dioxane	0.72		ug/L	0.5	EPA 8270M	123-91-1	Weck	5/2/02	5/11/02	Y
BP-GW-MW50112-050202	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/2/02	5/9/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50112-050202	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	cis-1,2-Dichloroethene	1.1		ug/L	1	EPA 8260B	156-59-4	Weck	5/2/02	5/9/02	Y
BP-GW-MW50112-050202	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	N-Nitrosodimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	5/2/02	5/18/02	N
BP-GW-MW50112-050202	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Perchlorate	3.4		ug/L	3	EPA 314		Weck	5/2/02	5/10/02	Y
BP-GW-MW50112-050202	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Tetrachloroethene	1.7		ug/L	1	EPA 8260B	127-18-4	Weck	5/2/02	5/9/02	Y
BP-GW-MW50112-050202	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Trichloroethene	2.2		ug/L	1	EPA 8260B	79-01-6	Weck	5/2/02	5/9/02	Y
BP-GW-MW50112-050202	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50112-050202	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/2/02	5/9/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50113-050202	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	1,4-Dioxane	0.5	<	ug/L	0.5	EPA 8270M	123-91-1	Weck	5/2/02	5/11/02	N
BP-GW-MW50113-050202	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	N-Nitrosodimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	5/2/02	5/18/02	N
BP-GW-MW50113-050202	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Perchlorate	3.2		ug/L	3	EPA 314		Weck	5/2/02	5/10/02	Y

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50113-050202	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Tetrachloroethene	1	<	ug/L	1	EPA 8260B	127-18-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Trichloroethene	1	<	ug/L	1	EPA 8260B	79-01-6	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50113-050202	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/2/02	5/9/02	N
BP-GW-MW50501-051402	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,1-Dichloroethene	1.4		ug/L	1	EPA 8260B	75-35-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50501-051402	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	1,4-Dioxane	1.2		ug/L	0.5	EPA 8270M	123-91-1	Weck	5/14/02	5/25/02	Y
BP-GW-MW50501-051402	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/14/02	5/16/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50501-051402	Carbon tetrachloride	20		ug/L	1	EPA 8260B	56-23-5	Weck	5/14/02	5/16/02	Y
BP-GW-MW50501-051402	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	cis-1,2-Dichloroethene	1.2		ug/L	1	EPA 8260B	156-59-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50501-051402	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	N-Nitroso-dimethylamine	2.8		ng/L	2	EPA 1625M	62-75-9	Weck	5/14/02	5/25/02	Y
BP-GW-MW50501-051402	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Perchlorate	14		ug/L	3	EPA 314		Weck	5/14/02	5/21/02	Y
BP-GW-MW50501-051402	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Tetrachloroethene	5.1		ug/L	1	EPA 8260B	127-18-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50501-051402	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Trichloroethene	19		ug/L	1	EPA 8260B	79-01-6	Weck	5/14/02	5/16/02	Y
BP-GW-MW50501-051402	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50501-051402	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,1,1-Trichloroethane	2.7		ug/L	1	EPA 8260B	71-55-6	Weck	5/14/02	5/16/02	Y
BP-GW-MW50502-051402	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,1-Dichloroethene	22		ug/L	1	EPA 8260B	75-35-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50502-051402	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/14/02	5/16/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50502-051402	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	1,4-Dioxane	2.6		ug/L	0.5	EPA 8270M	123-91-1	Weck	5/14/02	5/25/02	Y
BP-GW-MW50502-051402	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Carbon tetrachloride	1.4		ug/L	1	EPA 8260B	56-23-5	Weck	5/14/02	5/16/02	Y
BP-GW-MW50502-051402	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Chloroform	1.1		ug/L	1	EPA 8260B	67-66-3	Weck	5/14/02	5/16/02	Y
BP-GW-MW50502-051402	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	cis-1,2-Dichloroethene	14		ug/L	1	EPA 8260B	156-59-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50502-051402	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	N-Nitroso-dimethylamine	2.7		ng/L	2	EPA 1625M	62-75-9	Weck	5/14/02	5/25/02	Y
BP-GW-MW50502-051402	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Perchlorate	6.8		ug/L	3	EPA 314		Weck	5/14/02	5/21/02	Y
BP-GW-MW50502-051402	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Tetrachloroethene	140		ug/L	1	EPA 8260B	127-18-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50502-051402	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Trichloroethene	150		ug/L	1	EPA 8260B	79-01-6	Weck	5/14/02	5/16/02	Y

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50502-051402	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50502-051402	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,1,1-Trichloroethane	2.4		ug/L	1	EPA 8260B	71-55-6	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,1-Dichloroethane	1.1		ug/L	1	EPA 8260B	75-34-3	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	1,1-Dichloroethene	25		ug/L	1	EPA 8260B	75-35-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	1,4-Dioxane	4.3		ug/L	0.5	EPA 8270M	123-91-1	Weck	5/14/02	5/25/02	Y
BP-GW-MW50503-051402	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Carbon tetrachloride	1.5		ug/L	1	EPA 8260B	56-23-5	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Chloroform	2.4		ug/L	1	EPA 8260B	67-66-3	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	cis-1,2-Dichloroethene	23		ug/L	1	EPA 8260B	156-59-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/14/02	5/16/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50503-051402	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	N-Nitroso-dimethylamine	4.4		ng/L	2	EPA 1625M	62-75-9	Weck	5/14/02	5/25/02	Y
BP-GW-MW50503-051402	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Perchlorate	17		ug/L	3	EPA 314		Weck	5/14/02	5/21/02	Y
BP-GW-MW50503-051402	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Tetrachloroethene	140		ug/L	1	EPA 8260B	127-18-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Trichloroethene	190		ug/L	1	EPA 8260B	79-01-6	Weck	5/14/02	5/16/02	Y
BP-GW-MW50503-051402	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50503-051402	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,1,1,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	630-20-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,1,1-Trichloroethane	1	<	ug/L	1	EPA 8260B	71-55-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,1,2,2-Tetrachloroethane	1	<	ug/L	1	EPA 8260B	79-34-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,1,2-Trichloroethane	1	<	ug/L	1	EPA 8260B	79-00-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,1-Dichloroethane	1	<	ug/L	1	EPA 8260B	75-34-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,1-Dichloroethene	1	<	ug/L	1	EPA 8260B	75-35-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,1-Dichloropropene	1	<	ug/L	1	EPA 8260B	563-58-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2,3-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	87-61-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2,3-Trichloropropane	1	<	ug/L	1	EPA 8260B	96-18-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2,4-Trichlorobenzene	5	<	ug/L	5	EPA 8260B	120-82-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2,4-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	95-63-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2-Dibromo-3-chloropropane (DBCP)	5	<	ug/L	5	EPA 8260B	96-12-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2-Dibromoethane (EDB)	1	<	ug/L	1	EPA 8260B	106-93-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	95-50-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2-Dichloroethane	1	<	ug/L	1	EPA 8260B	107-06-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	78-87-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,3,5-Trimethylbenzene	1	<	ug/L	1	EPA 8260B	108-67-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,3-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	541-73-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,3-Dichloropropane	1	<	ug/L	1	EPA 8260B	142-28-9	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,4-Dichlorobenzene	1	<	ug/L	1	EPA 8260B	106-46-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	1,4-Dioxane	0.59		ug/L	0.5	EPA 8270M	123-91-1	Weck	5/14/02	5/25/02	Y
BP-GW-MW50504-051402	2,2-Dichloropropane	1	<	ug/L	1	EPA 8260B	590-20-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	2-Butanone (Methyl ethyl ketone)	5	<	ug/L	5	EPA 8260B	78-93-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	2-Chloroethylvinyl ether	5	<	ug/L	5	EPA 8260B	110-75-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	2-Chlorotoluene	1	<	ug/L	1	EPA 8260B	95-49-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	2-Hexanone	5	<	ug/L	5	EPA 8260B	591-78-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	4-Chlorotoluene	1	<	ug/L	1	EPA 8260B	106-43-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	4-Isopropyltoluene	1	<	ug/L	1	EPA 8260B	99-87-6	Weck	5/14/02	5/16/02	N

SAMPLE_ID	PARAMETER_NAME	VALUE	FLAG	UNITS	RL	TEST METHOD	CAS NUMBER	LAB NAME	SAMPLE DATE	ANALYSIS DATE	DETECTED
BP-GW-MW50504-051402	4-Methyl-2-pentanone (MiBK)	5	<	ug/L	5	EPA 8260B	108-10-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Acetone	5	<	ug/L	5	EPA 8260B	67-64-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Acrolein	10	<	ug/L	10	EPA 8260B	107-02-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Acrylonitrile	10	<	ug/L	10	EPA 8260B	107-13-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Benzene	1	<	ug/L	1	EPA 8260B	71-43-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Bromobenzene	1	<	ug/L	1	EPA 8260B	108-86-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Bromochloromethane	1	<	ug/L	1	EPA 8260B	74-97-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Bromodichloromethane	1	<	ug/L	1	EPA 8260B	75-27-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Bromoform	1	<	ug/L	1	EPA 8260B	75-25-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Bromomethane	1	<	ug/L	1	EPA 8260B	74-83-9	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Carbon tetrachloride	1	<	ug/L	1	EPA 8260B	56-23-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Chlorobenzene	1	<	ug/L	1	EPA 8260B	108-90-7	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Chloroethane	1	<	ug/L	1	EPA 8260B	75-00-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Chloroform	1	<	ug/L	1	EPA 8260B	67-66-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Chloromethane	1	<	ug/L	1	EPA 8260B	74-87-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	cis-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-59-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	cis-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-01-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Dibromochloromethane	1	<	ug/L	1	EPA 8260B	124-48-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Dibromomethane	1	<	ug/L	1	EPA 8260B	74-95-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Dichlorodifluoromethane	1	<	ug/L	1	EPA 8260B	75-71-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Ethyl benzene	1	<	ug/L	1	EPA 8260B	100-41-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Hexachlorobutadiene	5	<	ug/L	5	EPA 8260B	87-68-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Isopropylbenzene	1	<	ug/L	1	EPA 8260B	98-82-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	m/p-Xylenes	1	<	ug/L	1	EPA 8260B		Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Methyl tert-Butyl Ether (MTBE)	3	<	ug/L	3	EPA 8260B	1634-04-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Methylene chloride (Dichloromethane)	5	<	ug/L	5	EPA 8260B	75-09-2	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Naphthalene	5	<	ug/L	5	EPA 8260B	91-20-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	n-Butylbenzene	1	<	ug/L	1	EPA 8260B	104-51-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	N-Nitroso-dimethylamine	2	<	ng/L	2	EPA 1625M	62-75-9	Weck	5/14/02	5/25/02	N
BP-GW-MW50504-051402	n-Propylbenzene	1	<	ug/L	1	EPA 8260B	103-65-1	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	o-Xylene	1	<	ug/L	1	EPA 8260B	95-47-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Perchlorate	8.2		ug/L	3	EPA 314		Weck	5/14/02	5/21/02	Y
BP-GW-MW50504-051402	sec-Butylbenzene	1	<	ug/L	1	EPA 8260B	135-98-8	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Styrene	1	<	ug/L	1	EPA 8260B	100-42-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	tert-Butylbenzene	1	<	ug/L	1	EPA 8260B	98-06-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Tetrachloroethene	9.1		ug/L	1	EPA 8260B	127-18-4	Weck	5/14/02	5/16/02	Y
BP-GW-MW50504-051402	Toluene	1	<	ug/L	1	EPA 8260B	108-88-3	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	trans-1,2-Dichloroethene	1	<	ug/L	1	EPA 8260B	156-60-5	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	trans-1,3-Dichloropropene	1	<	ug/L	1	EPA 8260B	10061-02-6	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Trichloroethene	1.6		ug/L	1	EPA 8260B	79-01-6	Weck	5/14/02	5/16/02	Y
BP-GW-MW50504-051402	Trichlorofluoromethane (Freon 11)	1	<	ug/L	1	EPA 8260B	75-69-4	Weck	5/14/02	5/16/02	N
BP-GW-MW50504-051402	Vinyl chloride	1	<	ug/L	1	EPA 8260B	75-01-4	Weck	5/14/02	5/16/02	N

APPENDIX I

ANNUAL SOURCE AND TREATED WATER QUALITY ANALYSIS RESULTS

Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: Friday, January 31, 2003
Received Date: Friday, December 27, 2002
Received Time: 3:00 pm

Turnaround Time: Normal

Client: Stetson Engineers, Inc.
3104 East Garvey Avenue
West Covina, CA 91791

Phone: (626) 967-6202
FAX: (626) 331-7065

Attn: Kevin Smead

Project: LPVCWD Permit

P.O.#: 1960-04

Certificate of Analysis

Work Order No: 2122724-01 **Sample ID: Well 3** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 11:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
1,4-Dioxane	0.93		ug/l	1	0.50	EPA 8270M	06-Jan-03	14-Jan-03	em	W301108
Total Fluoride	0.49		mg/l	1	0.050	EPA 300.0	28-Dec-02	28-Dec-02	hn	W301158
Chloride	16		mg/l	1	0.20	EPA 300.0	28-Dec-02	28-Dec-02	hn	W301158
Nitrate as NO3	27		mg/l	1	0.20	EPA 300.0	28-Dec-02	28-Dec-02	hn	W301158
Sulfate as SO4	32		mg/l	1	0.50	EPA 300.0	28-Dec-02	28-Dec-02	hn	W301158
Nitrite as N	ND		mg/l	1	0.060	EPA 300.0	28-Dec-02	28-Dec-02	hn	W301158
NO2+NO3 as N	6.1		mg/l	1	0.050	EPA 300.0	28-Dec-02	28-Dec-02	hn	W301158
Pyridine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
N-Nitrosodimethylamine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Phenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Aniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-chloroethyl)ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Chlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,3-Dichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,4-Dichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,2-Dichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Methylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-chloroisopropyl)ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
3 & 4-Methylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
N-Nitrosodi-n-propylamine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachloroethane	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Nitrobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Isophorone	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Nitrophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4-Dimethylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-chloroethoxy)methane	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4,6-Trichlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,2,4-Trichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Naphthalene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Chloroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007

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Certificate of Analysis

Work Order No: 2122724-01 **Sample ID: Well 3** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 11:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Benzoic acid	ND		ug/l	1	100	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachlorobutadiene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Chloro-3-methylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Methylnaphthalene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachlorocyclopentadiene	ND		ug/l	1	20	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4,6-Trichlorophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4,5-Trichlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Chloronaphthalene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Nitroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Acenaphthylene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Dimethyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,6-Dinitrotoluene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
3-Nitroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Acenaphthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4-Dinitrophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Dibenzofuran	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4-Dinitrotoluene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Nitrophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Fluorene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Chlorophenyl phenyl ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Diethyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Nitroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Azobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,2-Diphenylhydrazine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
N-Nitrosodiphenylamine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4,6-Dinitro-2-methylphenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Bromophenyl phenyl ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Pentachlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Phenanthrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Anthracene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Carbazole	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Di-n-butyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Fluoranthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzidine	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Pyrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Butyl benzyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (a) anthracene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Chrysene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
3'-Dichlorobenzidine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-ethylhexyl)phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Di-n-octyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007

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Certificate of Analysis

Work Order No: 2122724-01 **Sample ID: Well 3** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 11:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Benzo (b) fluoranthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (k) fluoranthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (a) pyrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Indeno (1,2,3-cd) pyrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Dibenz (a,h) anthracene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (g,h,i) perylene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzyl alcohol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Surrogate: 2-Fluorophenol			*65.0 %*		*23-80*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: Phenol-d5			*35.6 %*		*20-61*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: Nitrobenzene-d5			*96.5 %*		*52-121*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: 2-Fluorobiphenyl			*85.8 %*		*42-95*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: 2,4,6-Tribromophenol			*83.0 %*		*26-114*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: Terphenyl-dl4			*86.2 %*		*45-116*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
HMX	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
RDX	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
1,3,5-Trinitrobenzene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
1,3-Dinitrobenzene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
Tetryl	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
Nitrobenzene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
2,4,6-Trinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
4-Amino-2,6-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
2-Amino-4,6-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
2,4-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
2,6-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
2-Nitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
3-Nitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
4-Nitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
Total Alkalinity as CaCO3	**180**		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
Carbonate Alkalinity as CaCO3	ND		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
Bicarbonate Alkalinity as HCO3	**220**		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
Hydroxide Alkalinity as CaCO3	ND		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
Total Boron	**33**		ug/l	1	10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Total Cations	**4.9**		meq/l	1		Calculation	13-Jan-03	13-Jan-03	na	W301288
Total Anions	**5.2**		meq/l	1		Calculation	13-Jan-03	13-Jan-03	na	W301288
Cesium	ND		ug/l	1	50	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Color	ND		Units	1	3.0	EPA 110.2	27-Dec-02	27-Dec-02	my	W212791
Color-pH, Units	**7.0**		Units	1		EPA 110.2	27-Dec-02	27-Dec-02	my	W212791
Specific Conductance (EC)	**480**		umhos/cm	1	2.0	SM2510B	07-Jan-03	07-Jan-03	my	W301136
Hexavalent Chromium	**3.7**		ug/l	1	0.30	EPA 218.6	27-Dec-02	27-Dec-02	hp	W212753
Total Cyanide	ND		mg/l	1	0.010	SM4500CN E	10-Jan-03	13-Jan-03	hn	W301241
Total Iron	ND		ug/l	1	20	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Gross Alpha	**2.71**		pCi/L	1		Subcontract	08-Jan-03	08-Jan-03	tn	W301690
Gross Alpha counting error (+/-)	**1.00**		pCi/L	1		Subcontract	08-Jan-03	08-Jan-03	tn	W301690

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Certificate of Analysis

Work Order No: 2122724-01 **Sample ID: Well 3** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 11:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Gross Beta	3.18		pCi/L	1		Subcontract	25-Jan-03	25-Jan-03	tn	W301690
Gross Beta counting error (+/-)	1.21		pCi/L	1		Subcontract	25-Jan-03	25-Jan-03	tn	W301690
Total Hardness as CaCO3	200		mg/l	1	2.0	SM 2340B	10-Jan-03	10-Jan-03	na	W301261
Total Mercury	ND		ug/l	1	0.10	EPA 245.1	13-Jan-03	15-Jan-03	td	W301287
Lithium	ND		ug/l	1	10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Methylene Blue Active Substances	ND		mg/l	1	0.050	SM 5540 C	27-Dec-02	27-Dec-02	td	W212768
Calcium	55		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Potassium	2.4		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Magnesium	14		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Sodium	21		mg/l	1	0.50	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Total Titanium	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Vanadium	5.0		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Cobalt	ND		ug/l	1	0.20	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Strontium	290		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Zirconium	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Molybdenum	4.5		ug/l	1	1.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Tin	0.79		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Tungsten	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Thorium	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Uranium	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Beryllium	ND		ug/l	1	0.30	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Aluminum	18		ug/l	1	10	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Chromium	4.1		ug/l	1	4.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Manganese	ND		ug/l	1	1.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Nickel	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Copper	13		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Zinc	ND		ug/l	1	10	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Arsenic	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Selenium	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Silver	ND		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Cadmium	ND		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Antimony	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Barium	92		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Thallium	ND		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Lead	1.1		ug/l	1	1.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Threshold Odor Number	1.0		T.O.N.	1	1.0	EPA 140.1	27-Dec-02	27-Dec-02	my	W212793
Total Phosphorus	55		ug/l	1	30	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
pH	7.43		pH Units	1		SM4500 H+ B	27-Dec-02	27-Dec-02	dd	W212789
Total Silica (SiO2)	24		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Total Dissolved Solids	280		mg/l	1	10	SM2540C	03-Jan-03	07-Jan-03	my	W301051
Turbidity	0.14		NTU	1	0.10	EPA 180.1	27-Dec-02	27-Dec-02	my	W212794

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Case Narrative:
mple 2122724-01 Well 3:
PA 8270 Tentatively Identified Compounds: See attachment.

mple 2122724-02 SP-6:
PA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, hich is attributed to decomposition of the preservative used.

Authorized Signature

ELAP # 1132
LACSD # 10143

results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Notes:
The Chain of Custody document is part of the analytical report.
remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
esults are expressed on wet weight basis unless otherwise specified.
Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.

s for Data Qualifiers:

Analyte is found in the associated blank as well as in the sample (CLP B-flag).
Q-08 = This analyte bias high in QC sample, but not found in samples.
QM-02 = The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
02 = The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on perc
= The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-GC = Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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Weck Laboratories, Inc.
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Report Date: Friday, January 31, 2003
Received Date: Friday, December 27, 2002
Received Time: 3:00 pm

Turnaround Time: Normal

Client: Stetson Engineers, Inc.
3104 East Garvey Avenue
West Covina, CA 91791

Phone: (626) 967-6202
FAX: (626) 331-7065

Attn: Kevin Smead

Project: LPVCWD Permit

P.O.#: 1960-04

Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
,2,3-Trichloropropane	ND		ng/l	1	5.0	1,2,3-tcp P&T	03-Jan-03	03-Jan-03	rt	W301087
,4-Dioxane	**1.0**		ug/l	1	0.50	EPA 8270M	06-Jan-03	11-Jan-03	em	W301108
'otal Fluoride	**0.40**		mg/l	1	0.050	EPA 300.0	27-Dec-02	27-Dec-02	hn	W212770
:hloride	**150**		mg/l	10	2.0	EPA 300.0	27-Dec-02	27-Dec-02	hn	W212770
litrate as NO3	**0.27**		mg/l	1	0.20	EPA 300.0	27-Dec-02	27-Dec-02	hn	W212770
ulfate as SO4	ND		mg/l	1	0.50	EPA 300.0	27-Dec-02	27-Dec-02	hn	W212770
litrite as N	ND		mg/l	1	0.060	EPA 300.0	27-Dec-02	27-Dec-02	hn	W212770
IO2+NO3 as N	**0.061**		mg/l	1	0.050	EPA 300.0	27-Dec-02	27-Dec-02	hn	W212770
,2-Dibromoethane (EDB)	ND		ug/l	1	0.020	EPA 504.1	03-Jan-03	03-Jan-03	fv	W301064
,2-Dibromo-3-chloropropane	ND		ug/l	1	0.010	EPA 504.1	03-Jan-03	03-Jan-03	fv	W301064
lachlor	ND		ug/l	1	1.0	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
trazine	ND		ug/l	1	0.50	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
romacil	ND		ug/l	1	10	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
utachlor	ND		ug/l	1	0.38	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
iazinon	ND		ug/l	1	0.25	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
imethoate	ND		ug/l	1	1.0	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
etolachlor	ND		ug/l	1	0.50	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
etribuzin	ND		ug/l	1	0.50	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
olinate	ND		ug/l	1	0.50	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
ometon	ND		ug/l	1	1.0	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
ometryn	ND		ug/l	1	0.50	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
mazine	ND		ug/l	1	0.50	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
iobencarb	ND		ug/l	1	1.0	507 L-L	31-Dec-02	07-Jan-03	fv	W212856
rrogate: 1,3-Dimethyl-2-nitrobenzene			*78.0 %*		*70-130*	*507 L-L*	*31-Dec-02*	*07-Jan-03*	*fv*	*W212856*
drin	ND		ug/l	1	0.075	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
ha-BHC	ND		ug/l	1	0.050	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
ta-BHC	ND		ug/l	1	0.050	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
lta-BHC	ND		ug/l	1	0.50	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
mma-BHC (Lindane)	ND		ug/l	1	0.20	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
'-DDD	ND		ug/l	1	0.020	EPA 508	02-Jan-03	10-Jan-03	fv	W301014

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
4,4'-DDE	ND		ug/l	1	0.010	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
4,4'-DDT	ND		ug/l	1	0.020	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Dieldrin	ND		ug/l	1	0.020	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Endosulfan I	ND		ug/l	1	0.020	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Endosulfan II	ND		ug/l	1	0.010	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Endosulfan sulfate	ND		ug/l	1	0.050	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Endrin	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Endrin aldehyde	ND		ug/l	1	0.050	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Heptachlor	ND		ug/l	1	0.010	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Heptachlor epoxide	ND		ug/l	1	0.010	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Methoxychlor	ND		ug/l	1	10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Chlorothalonil	ND		ug/l	1	5.0	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Hexachlorobenzene	ND		ug/l	1	0.50	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Hexachlorocyclopentadiene	ND		ug/l	1	1.0	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Propachlor	ND		ug/l	1	0.50	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Trifluralin	ND		ug/l	1	0.010	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Chlordane (tech)	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Toxaphene	ND		ug/l	1	1.0	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
PCB-1016	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
PCB-1221	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
PCB-1232	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
PCB-1242	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
PCB-1248	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
PCB-1254	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
PCB-1260	ND		ug/l	1	0.10	EPA 508	02-Jan-03	10-Jan-03	fv	W301014
Surrogate: Decachlorobiphenyl			*116 %*		*70-130*	*EPA 508*	*02-Jan-03*	*10-Jan-03*	*fv*	*W301014*
Surrogate: Tetrachloro-meta-xylene			*114 %*		*70-130*	*EPA 508*	*02-Jan-03*	*10-Jan-03*	*fv*	*W301014*
Dalapon	ND		ug/l	1	0.50	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
3,6-Dichlorobenzoic acid	ND		ug/l	1	1.0	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Dicamba	ND		ug/l	1	0.60	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Dichloroprop	ND		ug/l	1	0.30	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
2,4-D	ND		ug/l	1	0.50	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Pentachlorophenol	ND		ug/l	1	0.20	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
2,4,5-TP (Silvex)	ND		ug/l	1	0.20	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
2,4,5-T	ND		ug/l	1	0.20	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
2,4-DB	ND		ug/l	1	2.0	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Dinoseb	ND		ug/l	1	0.50	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Bentazon	ND		ug/l	1	2.0	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
DCAA	ND		ug/l	1	0.10	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Picloram	ND		ug/l	1	1.0	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Acifluorfen	ND		ug/l	1	0.50	EPA 515.3	02-Jan-03	14-Jan-03	em	W301031
Surrogate: 2,4-DCAA			*89.8 %*		*70-130*	*EPA 515.3*	*02-Jan-03*	*14-Jan-03*	*em*	*W301031*

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Dichlorodifluoromethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Chloromethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Vinyl chloride	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Bromomethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Chloroethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Trichlorofluoromethane	ND		ug/l	1	5.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Freon 113	ND		ug/l	1	10	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,1-Dichloroethene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Methylene chloride	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
trans-1,2-Dichloroethene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Methyl tert-butyl ether	ND		ug/l	1	3.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,1-Dichloroethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Di-isopropyl ether	ND		ug/l	1	3.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Ethyl tert-butyl ether	ND		ug/l	1	3.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
2-Butanone	ND		ug/l	1	5.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
2,2-Dichloropropane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
cis-1,2-Dichloroethene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Bromochloromethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Chloroform	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
,1,1-Trichloroethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Carbon tetrachloride	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
,1-Dichloropropene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Benzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
,2-Dichloroethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Tert-amyl methyl ether	ND		ug/l	1	3.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Trichloroethene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
,2-Dichloropropane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Dibromomethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Bromodichloromethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
is-1,3-Dichloropropene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
-Methyl-2-pentanone	ND		ug/l	1	5.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
-Chloroethylvinyl ether	ND		ug/l	1	1.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Toluene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
ans-1,3-Dichloropropene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
,1,2-Trichloroethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
etrachloroethene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
,3-Dichloropropane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Dibromochloromethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
-Hexanone	ND		ug/l	1	5.0	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
hlorobenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,1,2-Tetrachloroethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
thylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
m,p-Xylene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
o-Xylene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Styrene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Bromoform	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Isopropylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Bromobenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,1,2,2-Tetrachloroethane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,2,3-Trichloropropane	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
n-Propylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
2-Chlorotoluene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
4-Chlorotoluene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,3,5-Trimethylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
tert-Butylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,2,4-Trimethylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
sec-Butylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
m-Dichlorobenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
p-Isopropyltoluene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
p-Dichlorobenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
o-Dichlorobenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
n-Butylbenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,2,4-Trichlorobenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Hexachlorobutadiene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Naphthalene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
1,2,3-Trichlorobenzene	ND		ug/l	1	0.50	EPA 524.2	02-Jan-03	02-Jan-03	an	W301226
Surrogate: 1,2-Dichlorobenzene-d4			*98.5 %*		*75-121*	*EPA 524.2*	*02-Jan-03*	*02-Jan-03*	*an*	*W301226*
Surrogate: 4-Bromofluorobenzene			*105 %*		*78-116*	*EPA 524.2*	*02-Jan-03*	*02-Jan-03*	*an*	*W301226*
Naphthalene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Dimethyl phthalate	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Acenaphthylene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Acenaphthene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Diethyl phthalate	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Fluorene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Bis(2-ethylhexyl)adipate	ND		ug/l	1	5.0	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Bis(2-ethylhexyl)phthalate	ND		ug/l	1	3.0	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Benzo (a) anthracene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Chrysene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Benzo (b) fluoranthene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Benzo (k) fluoranthene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Benzo (a) pyrene	ND		ug/l	1	0.10	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Indeno (1,2,3-cd) pyrene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Dibenz (a,h) anthracene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Benzo (g,h,i) perylene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Phenanthrene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Anthracene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Di-n-butyl phthalate	1.0	B	ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Fluoranthene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Pyrene	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Butyl benzyl phthalate	ND		ug/l	1	0.50	EPA 525.2	06-Jan-03	21-Jan-03	BN	W301105
Surrogate: 1,3-Dimethyl-2-nitrobenzene		S-04	*196 %*		*70-130*	*EPA 525.2*	*06-Jan-03*	*21-Jan-03*	*BN*	*W301105*
Surrogate: Perylene-d12			*86.6 %*		*70-130*	*EPA 525.2*	*06-Jan-03*	*21-Jan-03*	*BN*	*W301105*
Surrogate: Triphenyl phosphate		S-04	*189 %*		*70-130*	*EPA 525.2*	*06-Jan-03*	*21-Jan-03*	*BN*	*W301105*
Aldicarb sulfoxide	ND		ug/l	1	2.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Aldicarb sulfone	ND		ug/l	1	2.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Oxamyl	ND		ug/l	1	2.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Methomyl	ND		ug/l	1	2.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
3-Hydroxycarbofuran	ND		ug/l	1	2.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Aldicarb	ND		ug/l	1	2.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Propoxur	ND		ug/l	1	5.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Carbofuran	ND		ug/l	1	5.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Carbaryl	ND		ug/l	1	2.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Methiocarb	ND		ug/l	1	3.0	EPA 531.1	13-Jan-03	16-Jan-03	hp	W301405
Glyphosate	ND		ug/l	1	6.0	EPA 547	31-Dec-02	31-Dec-02	hp	W212859
Endothall	ND		ug/l	1	45	EPA 548.1	30-Dec-02	03-Jan-03	BN	W212801
Diquat	ND		ug/l	1	4.0	EPA 549.2	30-Dec-02	07-Jan-03	hp	W212800
Paraquat	ND		ug/l	1	4.0	EPA 549.2	30-Dec-02	07-Jan-03	hp	W212800
Pyridine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
N-Nitrosodimethylamine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Phenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Aniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-chloroethyl)ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Chlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,3-Dichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,4-Dichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,2-Dichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Methylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-chloroisopropyl)ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
3 & 4-Methylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
N-Nitrosodi-n-propylamine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachloroethane	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Nitrobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Isophorone	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Nitrophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4-Dimethylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-chloroethoxy)methane	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
2,4-Dichlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,2,4-Trichlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Naphthalene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Chloroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzoic acid	ND		ug/l	1	100	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachlorobutadiene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Chloro-3-methylphenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Methylnaphthalene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachlorocyclopentadiene	ND		ug/l	1	20	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4,6-Trichlorophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4,5-Trichlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Chloronaphthalene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2-Nitroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Acenaphthylene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Dimethyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,6-Dinitrotoluene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
3-Nitroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Acenaphthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4-Dinitrophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Dibenzofuran	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
2,4-Dinitrotoluene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Nitrophenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Fluorene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Chlorophenyl phenyl ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Diethyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Nitroaniline	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Azobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
1,2-Diphenylhydrazine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
N-Nitrosodiphenylamine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4,6-Dinitro-2-methylphenol	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
4-Bromophenyl phenyl ether	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Hexachlorobenzene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Pentachlorophenol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Phenanthrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Anthracene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Carbazole	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Di-n-butyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Fluoranthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzidine	ND		ug/l	1	10	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Pyrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Butyl benzyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (a) anthracene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Chrysene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
3,3'-Dichlorobenzidine	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Bis(2-ethylhexyl)phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Di-n-octyl phthalate	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (b) fluoranthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (k) fluoranthene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (a) pyrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Indeno (1,2,3-cd) pyrene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Dibenz (a,h) anthracene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzo (g,h,i) perylene	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Benzyl alcohol	ND		ug/l	1	5.0	EPA 8270C	02-Jan-03	10-Jan-03	BN	W301007
Surrogate: 2-Fluorophenol		S-GC	*19.4 %*		*23-80*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: Phenol-d5		S-GC	*%*		*20-61*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: Nitrobenzene-d5			*88.6 %*		*52-121*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: 2-Fluorobiphenyl			*80.7 %*		*42-95*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: 2,4,6-Tribromophenol			*59.5 %*		*26-114*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
Surrogate: Terphenyl-dl4			*82.2 %*		*45-116*	*EPA 8270C*	*02-Jan-03*	*10-Jan-03*	*BN*	*W301007*
HMX	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
RDX	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
,3,5-Trinitrobenzene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
,3-Dinitrobenzene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
Tetryl	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
Nitrobenzene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
,4,6-Trinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
-Amino-2,6-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
-Amino-4,6-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
,4-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
6-Dinitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
-Nitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
-Nitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
Nitrotoluene	ND		ug/l	1	1.50	EPA 8330	02-Jan-03	13-Jan-03	hp	W301034
otal Alkalinity as CaCO3	**120**		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
arbonate Alkalinity as CaCO3	ND		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
icarbonate Alkalinity as HCO3	**140**		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
ydroxide Alkalinity as CaCO3	ND		mg/l	1	2.0	SM 2320B	02-Jan-03	02-Jan-03	td	W301002
otal Boron	**38**		ug/l	1	10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
otal Cations	**5.2**		meq/l	1		Calculation	13-Jan-03	13-Jan-03	na	W301288
otal Anions	**6.6**		meq/l	1		Calculation	13-Jan-03	13-Jan-03	na	W301288
rium	ND		ug/l	1	50	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
lor	ND		Units	1	3.0	EPA 110.2	27-Dec-02	27-Dec-02	my	W212791
lor-pH, Units	**7.0**		Units	1		EPA 110.2	27-Dec-02	27-Dec-02	my	W212791
ecific Conductance (EC)	**610**		umhos/cm	1	2.0	SM2510B	07-Jan-03	07-Jan-03	my	W301136
xavalent Chromium	ND		ug/l	1	0.30	EPA 218.6	27-Dec-02	27-Dec-02	hp	W212753

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Total Cyanide	ND		mg/l	1	0.010	SM4500CN E	10-Jan-03	13-Jan-03	hn	W301241
2,3,7,8-TCDD	ND		pg/l	1	1.57	Subcontract	16-Jan-03	17-Jan-03	tn	W301551
Total Iron	ND		ug/l	1	20	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Gross Alpha	**0.0800**		pCi/L	1		Subcontract	09-Jan-03	09-Jan-03	tn	W301690
Gross Alpha counting error (+/-)	**0.570**		pCi/L	1		Subcontract	09-Jan-03	09-Jan-03	tn	W301690
Gross Beta	**1.69**		pCi/L	1		Subcontract	25-Jan-03	25-Jan-03	tn	W301690
Gross Beta counting error (+/-)	**0.970**		pCi/L	1		Subcontract	25-Jan-03	25-Jan-03	tn	W301690
Total Hardness as CaCO3	**190**		mg/l	1	2.0	SM 2340B	10-Jan-03	10-Jan-03	na	W301261
Total Mercury	ND		ug/l	1	0.10	EPA 245.1	13-Jan-03	15-Jan-03	td	W301287
Lithium	ND		ug/l	1	10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Methylene Blue Active Substances	ND		mg/l	1	0.050	SM 5540 C	27-Dec-02	27-Dec-02	td	W212768
Calcium	**54**		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Potassium	**2.5**		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Magnesium	**13**		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Sodium	**29**		mg/l	1	0.50	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Total Titanium	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Vanadium	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Cobalt	ND		ug/l	1	0.20	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Strontium	**280**		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Zirconium	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Molybdenum	ND		ug/l	1	1.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Tin	ND		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Tungsten	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Thorium	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Uranium	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Beryllium	ND		ug/l	1	0.30	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Aluminum	**71**		ug/l	1	10	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Chromium	ND		ug/l	1	4.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Manganese	ND		ug/l	1	1.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Nickel	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Copper	**4.6**		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Zinc	ND		ug/l	1	10	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Arsenic	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Selenium	ND		ug/l	1	2.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Silver	ND		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Cadmium	ND		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Antimony	ND		ug/l	1	5.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Barium	**89**		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Thallium	ND		ug/l	1	0.50	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
Total Lead	ND		ug/l	1	1.0	EPA 200.8	09-Jan-03	09-Jan-03	at	W301218
N-Nitrosodimethylamine	ND		ng/l	1	1.0	EPA 1625M	03-Jan-03	05-Jan-03	em	W301066
Threshold Odor Number	**1.0**		T.O.N.	1	1.0	EPA 140.1	27-Dec-02	27-Dec-02	my	W212793
Total Phosphorus	ND		ug/l	1	30	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166

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Certificate of Analysis

Work Order No: 2122724-02 **Sample ID: SP-6** **Matrix: Water**

Sampled By: Chad Blais **Sampled: 27-Dec-02 12:55** **Sample Note: La Puente Valley County Water Dist.**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Perchlorate	ND		ug/l	1	3.0	EPA 314.0	07-Jan-03	08-Jan-03	hp	W301157
pH	7.37		pH Units	1		SM4500 H+ B	27-Dec-02	27-Dec-02	dd	W212789
Total Silica (SiO2)	24		mg/l	1	0.10	EPA 200.7	08-Jan-03	10-Jan-03	na	W301166
Total Dissolved Solids	360		mg/l	1	10	SM2540C	03-Jan-03	07-Jan-03	my	W301051
Turbidity	ND		NTU	1	0.10	EPA 180.1	27-Dec-02	27-Dec-02	my	W212794

Case Narrative:

Sample 2122724-01 Well 3:
EPA 8270 Tentatively Identified Compounds: See attachment.

Sample 2122724-02 SP-6:
EPA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, which is attributed to decomposition of the preservative used.

Authorized Signature

ELAP # 1132
LACSD # 10143

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

otes:
he Chain of Custody document is part of the analytical report.
ny remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
ll results are expressed on wet weight basis unless otherwise specified.
D=Not detected, below the reporting limit.
ub=Subcontracted analysis, original report enclosed.

ags for Data Qualifiers:

= Analyte is found in the associated blank as well as in the sample (CLP B-flag).
08 = This analyte bias high in QC sample, but not found in samples.
M-02 = The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
R-02 = The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on perc
04 = The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC = Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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EPA 8270C TICs

Sample ID: 2122724-01

R.T.	Match Number	Name	Match Quality	Est. Conc. (ug/L)	CAS #	Notes
		No semivolatile TIC detected				

Sample ID: 2122724-02

R.T.	Match Number	Name	Match Quality	Est. Conc. (ug/L)	CAS #	Notes
6.37	1	7-Hydroxy-3,7-dimethyloctanal	36	610	107-75-5	Over calibration range
6.37	2	1-Ethoxy-2-methylpropane	28	610	627-02-1	Over calibration range
6.43	1	Unidentified alcohol or oxynated compounds		2.2		
6.71	1	2,3-Dichloro-2-methylbutane	64	300	507-45-9	Over calibration range
6.71	2	1,1-Dichloropropane	50	300	78-99-9	Over calibration range
6.71	3	1,3-Dichloro-3-methylbutane	37	300	624-96-4	Over calibration range
6.97	1	2-Methyl-5-hexen-3-ol	10	18	32815-51-7	Poor quality match
6.97	2	1-Bromo-1-chloro-2-fluorocyclopropane	9	18	24071-59-8	Poor quality match
6.97	3	2-(chloromethyl)-1,3-Dioxolane	9	18	2568-30-1	Poor quality match
8.10	1	cis 1,3-Dichlorocyclopentane	52	7.9	26688-51-7	
8.10	2	1-Chlorocyclopentene	35	7.9	930-29-0	
8.10	3	cis 1,2-Dichlorocyclopentane	25	7.9	31025-65-7	
9.03	1	Chlorotrimethylsilane	12	21	75-77-4	Possibly bleeding of GC column
9.14	1	6-Chloro-3-pyridazinamine	25	38	5469-69-2	Poor quality match
9.14	2	2-Methyl-2H-cyclopenta[d]pyridazine	14	38	22291-85-6	Poor quality match
9.14	3	5-Methyl-3H-1,3-dithiol-3-one	14	38	3620-08-4	Poor quality match
9.25	1	Chlorotrimethylsilane	12	12	75-77-4	Possibly bleeding of GC column
9.79	1	1,1,2-Trichloropropane	17	75	598-77-6	Poor quality match
9.79	2	Phthalazin-1-one	12	75	119-39-1	Poor quality match
10.9	1	5-Ethylbicyclo[2.2.1]-2-heptene	27	63	15403-89-1	Poor quality match
10.9	2	3-Ethenylbicyclo[2.2.1]hept-2-ene	16	63	3048-64-4	Poor quality match
10.9	3	Endo-4-oxatricyclo[5.2.1.0(2,6)]dec-8-ene	16	63	N/A	Poor quality match

R.T.	Match Number	Name	Match Quality	Est. Conc. (ug/L)	CAS #	Notes
11.01	1	2-Methyl-2H-cyclopenta[d]pyridazine	38	18	22291-85-6	
11.01	2	Ethenylbenzaldehyde	38	18	43145-54-6	
11.01	3	5,6-Dimethyl-3-pyridinecarbonitrile	38	18	N/A	
11.18	1	Endo-4-oxatricyclo[5.2.1.0(2,6)]dec-8-ene	27	14	N/A	Poor quality match
11.18	2	1-Penten-3-yne	12	14	646-05-9	Poor quality match
11.18	3	1-Penten-1-yne	12	14	2206-23-7	Poor quality match
12.22	1	4,8-Dichloro-1,5-naphthyridine	41	3.8	28252-80-4	
12.22	2	3,8-Dichloro-1,5-naphthyridine	38	3.8	28252-81-5	
12.22	3	2,8-Dichloro-1,5-naphthyridine	32	3.8	28252-76-8	
13.38	1	3,5-Dibromo-2-thiophenecarboxylic acid	16	6.2	7311-68-4	Poor quality match
13.38	2	o,o-Dimethyl-o-(3,5,6-trichloro-2-pyridinyl) ester phosphorothioic acid	10	6.2	5598-13-0	Poor quality match
13.38	3	3-Methyl-1,2-diphenyl-3-(2-thienyl) cyclopropene	9	6.2	86738-97-8	Poor quality match

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

EDT

Date of Report: 03/02/07

Sample ID No. 2122724-02

Laboratory Name:
Weck Laboratories, Inc

Signature Lab Director:

Name of Sampler: Chad Blais

Date / time Sample collected:
02/12/27 1255

Date / Time Sample Received:
02/12/27 1500

Date Analyses Completed:
02/12/27

System name: LA PUENTE VALLEY CWD

System Number: 1910060

Name or number of Sample Source: SP-6, TREATMENT PLANT FINAL EFFLUENT

USER ID: 4TH

Station Number: 1910060-013

Laboratory code: 9588

Date / time Sample: | 02| 12 | 27 | 1255
YY MM DD TTTT

Date Analyses Completed: | 02| 12 | 27 |
YY MM DD

Submitted by: _____ **Phone #:** _____

Test Method	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
547	Glyphosate	79743	ND	700	25.00
	Perchlorate (ug/L)	A-031	ND		4.000
	Chromium, hexavalent (CrVI) (ug/L)	01032	ND		1.000
P&T	1,2,3-Trichloropropane	77443	ND		.005
504.1	EDB (Ethylene Dibromide, 1,2-dibromoethane)	77651	ND	0.02	.02
5[illegible].1	DBCP (Dibromochloropropane)	38761	ND	0.2	.01
5[illegible]	Alachlor (ALANEX)	77825	ND	2	1.00
507	Atrazine (AATREX)	39033	ND	3	1.00
5[illegible]	Bromacil (HYVAR)	82198	ND		10.00
5[illegible]	Butachlor	77860	ND		.38
507	Diazinon	39570	ND		.25
5[illegible]	Dimethoate (CYGON)	38458	ND		10.00
5[illegible]	Metolachlor	39356	ND		
5[illegible]7	Metribuzin	81408	ND		
507	Molinate (ORDRAM)	82199	ND	20	2.00
5[illegible]	Prometryn (CAPARO)	39057	ND		2.00
5[illegible]	Simazine (PRINCEP)	39055	ND	4	1.00
507	Thiobencarb (BOLERO)	A-001	ND	70	1.00
5[illegible]1	Endothall	38926	ND	100	45.00
5[illegible]2	Diquat	78885	ND	20	4.00
1625M	N-Nitrosodimethylamine (NDMA)	34438	ND		.002
5[illegible]	Aldrin	39330	ND		.075
5[illegible]	gamma-BHC (Lindane)	39340	ND	.20	.20
508	Dieldrin	39380	ND		.02
508	Endrin	39390	ND	2	.10

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2122724-02

Test Method	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
508	Heptachlor	39410	ND	.01	.01
508	Heptachlor epoxide	39420	ND	.01	.01
508	Methoxychlor	39480	ND	40	10.00
508	Chlorothalonil	70314	ND		5.00
508	Hexachlorobenzene	39700	ND	1	.50
508	Hexachlorocyclopentadiene	34386	ND	50	1.00
508	Propachlor	38533	ND		.50
508	Chlordane	39350	ND	.1	.10
508	Toxaphene	39400	ND	3	1.00
508	PCB-1016	34671	ND	.5	.50
508	PCB-1221	39488	ND	.5	.50
508	PCB-1232	39492	ND	.5	.50
508	PCB-1242	39496	ND	.5	.50
508	PCB-1248	39500	ND	.5	.50
508	PCB-1254	39504	ND	.5	.50
508	PCB-1260	39508	ND	.5	.50
515.3	Dalapon	38432	ND	200	10.00
515.3	Dicamba	82052	ND		1.50
515.3	2,4-D	39730	ND	70	10.00
515.3	Pentachlorophenol (PCP)	39032	ND	1	.20
515.3	2,4,5-TP (SILVEX)	39045	ND	50	1.00
515.3	Dinoseb	81287	ND	7	2.00
515.3	Bentazon (BASAGRAN)	38710	ND	18	2.00
515.3	Chlorthal (DACTHAL, DCPA)		ND		
515.3	Picloram	39720	ND	500	1.00
525.2	Di(2-ethylhexyl) Adipate	A-026	ND	400	5.00
525.2	Diethylhexylphthalate (DEHP)	39100	ND	4	3.00
525.2	Benzo (a) Pyrene	34247	ND	.2	.10
531.1	Aldicarb Sulfoxide	A-019	ND		3.00
531.1	Aldicarb Sulfone	A-020	ND		4.00
531.1	Oxamyl (Vydate)	38865	ND	200	20.00
531.1	Methomyl	39051	ND		2.00
531.1	3-Hydroxycarbofuran	A-021	ND		3.00
531.1	Aldicarb (TEMIK)	39053	ND		3.00
531.1	Carbofuran (FURADAN)	81405	ND	18	5.00
531.1	Carbaryl (Sevin)	77700	ND		5.00
270M	1,4-Dioxane	A-032	ND		3.00
	Apparent Color (Unfiltered) (Units)	00081	ND		
	Odor Threshold at 60 C (TON)	00086	1.00		
	Lab Turbidity (NTU)	82079	0.06		

ample 2122724-01 Well 3:
PA 8270 Tentatively Identified Compounds: See attachment.

ample 2122724-02 SP-6:
PA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, hich is attributed to decomposition of the preservative used.

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

EDT

Date of Report: 03/02/06

Sample ID No. 2122724-02

Laboratory Name:
Weck Laboratories, Inc

Signature Lab Director:

Name of Sampler: Chad Blais

Date / time Sample collected:
02/12/27 1255

Date / Time Sample Received:
02/12/27 1500

Date Analyses Completed:
03/01/02

System name: LA PUENTE VALLEY CWD

System Number: 1910060

Name or number of Sample Source: SP-6, TREATMENT PLANT FINAL EFFLUENT

USER ID: 4TH

Station Number: 1910060-013

Laboratory code: 9588

Date / time Sample: | 02| 12 | 27 | 1255
YY MM DD TTTT

Date Analyses Completed: | 03| 01 | 02 |
YY MM DD

Submitted by: _____

Phone #: _____

Test Method	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	Chloroform (Trichloromethane)	32106	ND	X	.50
524.2	Bromodichloromethane	32101	ND	X	.50
524.2	Dibromochloromethane	32105	ND	X	.50
524.2	Bromoform	32104	ND	X	.50
524.2	Total Trihalomethanes (TM'S/ TTHM)	82080	ND	100	.50
524.2	Vinyl Chloride (VC)	39175	ND	.5	.50
524.2	Chloroethane	34311	ND		.50
524.2	Trichlorofluoromethane (FREON 11)	34488	ND	150	5.00
524.2	Trichlorotrifluoroethane (FREON 113)	81611	ND	1200	10.00
524.2	1,1-Dichloroethylene (1,1-DCE)	34501	ND	6	.50
524.2	Methylene Chloride	34423	ND		3.0
524.2	trans-1,2-Dichloroethylene (t-1,2-DCE)	34546	ND	10	.50
524.2	Methyl tert-Butyl Ether(MTBE)	46491	ND	5	3.00
524.2	1,1-Dichloroethane (1,1-DCA)	34496	ND	5	.50
524.2	cis-1,2-Dichloroethylene (c-1,2-DCE)	77093	ND	6	.50
524.2	1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	200	.50
524.2	Carbon Tetrachloride	32102	ND	.5	.50
524.2	Benzene	34030	ND	1	.50
524.2	1,2-Dichloroethane (1,2-DCA)	34531	ND	.5	.50
524.2	Trichloroethylene (TCE)	39180	ND	5	.50
524.2	1,2-Dichloropropane	34541	ND	5	.50
524.2	cis-1,3-Dichloropropene (D-D)	34704	ND	0.5	
524.2	Toluene	34010	ND	150	.50
524.2	trans-1,3-Dichloropropene	34699	ND	0.5	
524.2	1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	5	.50

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2122724-02

Test Method	CHEMICAL ALL CHEMICALS REPORTED	ENTRY #	ANALYSES RESULTS	MCL	DLR
524.2	Tetrachloroethylene (PCE)	34475	ND	5	.50
524.2	Monochlorobenzene (Chlorobenzene)	34301	ND	70	.50
524.2	Ethyl Benzene	34371	ND	700	.50
524.2	m,p-Xylene	A-014	ND		.50
524.2	o-Xylene	77135	ND		.50
524.2	Styrene	77128	ND	100	.50
524.2	1,1,2,2-Tetrachloroethane	34516	ND	1	.50
524.2	sec-Butylbenzene	A-044	ND		.50
524.2	1,4-Dichlorobenzene (p-DCB)	34571	ND	5	.50
524.2	1,2-Dichlorobenzene (o-DCB)	34536	ND	600	.50
524.2	1,2,4-Trichlorobenzene	34551	ND	70	.50
524.2	Total 1,3-Dichloropropene	34561	ND	.5	.50
524.2	Total Xylenes (m, p, & o)	81551	ND	1750	.50
	UNREGULATED ORGANIC CHEMICALS				
524.2	Dichlorodifluoromethane	34668	ND		0.50
524.2	Chloromethane (Methyl Chloride)	34418	ND		.50
524.2	Bromomethane (Methyl Bromide)	34413	ND		.50
524.2	Chloroethane	34311	ND		.50
524.2	Diisopropyl Ether (DIPE)	A-036	ND		3.00
524.2	Ethyl tert-Butyl Ether (ETBE)	A-033	ND		3.00
524.2	Methyl Ethyl Ketone (MEK, Butanone)	81595	ND		5.00
524.2	2,2-Dichloropropane	77170	ND		.50
524.2	Bromochloromethane	A-012	ND		.50
524.2	1,1-Dichloropropene	77168	ND		.50
524.2	tert-Amyl Methyl Ether (TAME)	A-034	ND		3.00
524.2	Dibromomethane	77596	ND		.50
524.2	cis-1,3-Dichloropropene (D-D)	34704	ND	0.5	
524.2	Methyl Ethyl Ketone (MEK, Butanone)	81595	ND		5.00
524.2	2-Chloroethylvinyl Ether	34576	ND		1.00
524.2	trans-1,3-Dichloropropene	34699	ND	0.5	
524.2	1,3-Dichloropropane	77173	ND		.50
524.2	1,1,1,2-Tetrachloroethane	77562	ND		.50
524.2	Isopropylbenzene (Cumene)	77223	ND		.50
524.2	Bromobenzene	81555	ND		.50
524.2	1,2,3-Trichloropropane	77443	ND		.50
524.2	n-Propylbenzene	77224	ND		.50
524.2	2-Chlorotoluene	A-008	ND		.50
524.2	4-Chlorotoluene	A-009	ND		.50
524.2	1,3,5-Trimethylbenzene	77226	ND		.50
524.2	tert-Butylbenzene	77353	ND		.50
524.2	1,2,4-Trimethylbenzene	77222	ND		.50
524.2	sec-Butylbenzene	A-044	ND		.50
524.2	1,3-Dichlorobenzene (m-DCB)	34566	ND		.50
524.2	p-Isopropyltoluene	A-011	ND		.50
524.2	n-Butylbenzene	A-010	ND		.50
524.2	Hexachlorobutadiene	34391	ND		.50
524.2	1,2,3-Trichlorobenzene	77613	ND		.50

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Weck Laboratories, Inc.
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22724-02

Test Method	CHEMICAL ALL CHEMICALS REPORTED	ENTRY #	ANALYSES RESULTS	MCL	DLR

mple 2122724-01 Well 3:
PA 8270 Tentatively Identified Compounds: See attachment.

Sample 2122724-02 SP-6:
PA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, hich is attributed to decomposition of the preservative used.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

EDT

Date of Report: 03/02/06

Sample ID No. 2122724-01

Laboratory Name:
Weck Laboratories, Inc

Signature Lab Director:

Name of Sampler: Chad Blais

Date / time Sample collected:
02/12/27 1155

Date / Time Sample Received:
02/12/27 1500

Date Analyses Completed:
02/12/27

System name: LA PUENTE VALLEY CWD

System Number: 1910060

Name or number of Sample Source: WELL 03

USER ID: 4TH

Station Number: 1910060-003

Laboratory code: 9588

Date / time Sample: | 02| 12 | 27 | 1155
YY MM DD TTTT

Date Analyses Completed: | 02| 12 | 27 |
YY MM DD

Submitted by: _____

Phone #: _____

Test Method	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
	Chromium, hexavalent (CrVI) (ug/L)	01032	3.70		1.000
	Boron (ug/L)	01020	ND		100
8270M	1,4-Dioxane	A-032	ND		3.00
	Apparent Color (Unfiltered) (Units)	00081	ND		
	Odor Threshold at 60 C (TON)	00086	1.00		
	Lab Turbidity (NTU)	82079	0.14		

Sample 2122724-01 Well 3:
EPA 8270 Tentatively Identified Compounds: See attachment.

Sample 2122724-02 SP-6:
EPA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, which is attributed to decomposition of the preservative used.

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

EDT

Date of Report: 03/02/06

Sample ID No. 2122724-01

Laboratory Name:
Weck Laboratories, Inc

Signature Lab Director:

Name of Sampler: Chad Blais

Date / time Sample collected:
02/12/27 1155

Date / Time Sample Received:
02/12/27 1500

Date Analyses Completed:
02/12/27

System name: LA PUENTE VALLEY CWD

System Number: 1910060

Name or number of Sample Source: WELL 03

USER ID: 4TH

Station Number: 1910060-003

Laboratory code: 9588

Date / time Sample: | 02| 12 | 27 | 1155
YY MM DD TTTT

Date Analyses Completed: | 02| 12 | 27 |
YY MM DD

Submitted by: _____

Phone #: _____

Test Method	CHEMICAL	ENTRY #	ANALYSES RESULTS	MCL	DLR
	Beryllium (ug/L)	01012	ND	4	1.000
	Mercury (Hg) (ug/L)	71900	ND	2	1.0
	Aluminum (Al) (ug/L)	01105	ND	1000	50.000
	Vanadium (ug/L)	01087	5.00		3.000
	Chromium (Total Cr) (ug/L)	01034	ND	50	10.000
	Manganese (Mn) (ug/L)	01055	ND	50	20.000
	Calcium (Ca) (mg/L)	00916	55.00		
	Nickel (ug/L)	01067	ND	100	10.000
	Copper (Cu) (ug/L)	01042	ND	1000	50.000
	Zinc (Zn) (ug/L)	01092	ND	5000	50.000
	Arsenic (As) (ug/L)	01002	ND	50	2.000
	Selenium (Se) (ug/L)	01147	ND	50	5.000
	Iron (Fe) (ug/L)	01045	ND	300	100.000
	Potassium (K) (mg/L)	00937	2.40		
	Silver (Ag) (ug/L)	01077	ND	100	10.000
	Magnesium (Mg) (mg/L)	00927	14.00		
	Cadmium (Cd) (ug/L)	01027	ND	5	1.000
	Sodium (NA) (mg/L)	00929	21.00		
	Antimony (ug/L)	01097	ND	6	6.000
	Barium (Ba) (ug/L)	01007	ND	1000	100.000
	Thallium (ug/L)	01059	ND	2	1.000
	Lead (Pb) (ug/L)	01051	ND		5.000
	PH (Laboratory) (Std.Units)	00403	7.43		
	Specific Conductance (E.C.) (umhos/cm)	00095	480.00	***	
	Total Alkalinity (AS CaCO3) (mg/L)	00410	180.00		

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2122724-01

Test Method	CHEMICAL ALL CHEMICALS REPORTED	ENTRY #	ANALYSES RESULTS	MCL	DLR
	Cyanide (ug/L)	01291	ND	200	100.000
	Total Filterable Residue@180C(TDS)(mg/L)	70300	280.00	****	
	Total Hardness (as CaCO3) (mg/L)	00900	200.00		
	Carbonate (CO3) (mg/L)	00445	ND		
	Bicarbonate (HCO3) (mg/L)	00440	220.00		
	Hydroxide (OH) (mg/L)	71830	ND		
	Fluoride (F) Temp. Depend. (mg/L)	00951	0.49	**	.100
	Chloride (Cl) (mg/L)	00940	16.00	*	
	Nitrate (as NO3) (mg/L)	71850	27.00	45	2.000
	Sulfate (SO4) (mg/L)	00945	32.00	*	.500
	Nitrite as Nitrogen(N) (ug/L)	00620	ND	1000	400
	Nitrate + Nitrite as Nitrogen(N) (ug/L)	A-029	ND	10000	400
	MBAS (mg/L)	38260	ND	0.5	

Sample 2122724-01 Well 3:
EPA 8270 Tentatively Identified Compounds: See attachment.

Sample 2122724-02 SP-6:
EPA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, which is attributed to decomposition of the preservative used.

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EDT

Date of Report: 03/02/06

Sample ID No. 2122724-02

Laboratory Name:
Weck Laboratories, Inc

Signature Lab Director: Teresa Costerina

Name of Sampler: Chad Blais

Date / time Sample collected:
02/12/27 1255

Date / Time Sample Received:
02/12/27 1500

Date Analyses Completed:
02/12/27

System name: LA PUENTE VALLEY CWD

System Number: 1910060

Name or number of Sample Source: SP-6, TREATMENT PLANT FINAL EFFLUENT

USER ID: 4TH

Station Number: 1910060-013

Laboratory code: 9588

Date / time Sample: | 02| 12 | 27 | 1255
YY MM DD TTTT

Date Analyses Completed: | 02| 12 | 27 |
YY MM DD

Submitted by: _____

Phone #: _____

Test Method	CHEMICAL	ENTRY #	ANALYSES RESULTS	MCL	DLR
	Beryllium (ug/L)	01012	ND	4	1.000
	Mercury (Hg) (ug/L)	71900	ND	2	1.0
	Aluminum (Al) (ug/L)	01105	71.00	1000	50.000
	Vanadium (ug/L)	01087	ND		3.000
	Chromium (Total Cr) (ug/L)	01034	ND	50	10.000
	Manganese (Mn) (ug/L)	01055	ND	50	20.000
	Calcium (Ca) (mg/L)	00916	54.00		
	Nickel (ug/L)	01067	ND	100	10.000
	Copper (Cu) (ug/L)	01042	ND	1000	50.000
	Zinc (Zn) (ug/L)	01092	ND	5000	50.000
	Arsenic (As) (ug/L)	01002	ND	50	2.000
	Selenium (Se) (ug/L)	01147	ND	50	5.000
	Iron (Fe) (ug/L)	01045	ND	300	100.000
	Potassium (K) (mg/L)	00937	2.50		
	Silver (Ag) (ug/L)	01077	ND	100	10.000
	Magnesium (Mg) (mg/L)	00927	13.00		
	Cadmium (Cd) (ug/L)	01027	ND	5	1.000
	Sodium (NA) (mg/L)	00929	29.00		
	Antimony (ug/L)	01097	ND	6	6.000
	Barium (Ba) (ug/L)	01007	ND	1000	100.000
	Thallium (ug/L)	01059	ND	2	1.000
	Lead (Pb) (ug/L)	01051	ND		5.000
	PH (Laboratory) (Std.Units)	00403	7.37		
	Specific Conductance (E.C.) (umhos/cm)	00095	610.00	***	
	Total Alkalinity (AS CaCO3) (mg/L)	00410	120.00		

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2122724-02

Test Method	CHEMICAL ALL CHEMICALS REPORTED	ENTRY #	ANALYSES RESULTS	MCL	DLR
	Cyanide (ug/L)	01291	ND	200	100.000
	Total Filterable Residue@180C(TDS)(mg/L)	70300	360.00	****	
	Total Hardness (as CaCO3) (mg/L)	00900	190.00		
	Carbonate (CO3) (mg/L)	00445	ND		
	Bicarbonate (HCO3) (mg/L)	00440	140.00		
	Hydroxide (OH) (mg/L)	71830	ND		
	Fluoride (F) Temp. Depend. (mg/L)	00951	0.40	**	.100
	Chloride (Cl) (mg/L)	00940	150.00	*	
	Nitrate (as NO3) (mg/L)	71850	ND	45	2.000
	Sulfate (SO4) (mg/L)	00945	ND	*	.500
	Nitrite as Nitrogen(N) (ug/L)	00620	ND	1000	400
	Nitrate + Nitrite as Nitrogen(N) (ug/L)	A-029	ND	10000	400
	MBAS (mg/L)	38260	ND	0.5	

Sample 2122724-01 Well 3:
EPA 8270 Tentatively Identified Compounds: See attachment.

Sample 2122724-02 SP-6:
EPA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, which is attributed to decomposition of the preservative used.

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TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

REPORT

CLIENT: WECK Laboratories
14859 East Clark Ave
Industry, CA 91745

ATTN: Jayna Kostura

REPORT DATE: 01/27/03
DATE RECEIVED: 01/02/03
LABORATORY NO: 912992

SAMPLE: Water/2

INVESTIGATION: GROSS ALPHA ANALYSIS PER SM7110C
BROSS BETA ANALYSIS PER EPA 900.0

RESULTS

Sample ID:	Analysis	Activity pCi/L	Two Sigma Error	Date Analyzed
1 2122724-01	Gross Alpha	2.71	+/- 1.00	01/08/03
	Gross Beta	3.18	+/- 1.21	01/25/03
2 2122724-02	Gross Alpha	0.08	+/- 0.57	01/09/03
	Gross Beta	1.69	+/- 0.97	01/25/03

Gross Alpha results are based on a Uranium calibration curve.
Gross Beta results are based on a Cesium calibration curve.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC

Rossina Tomova, Project Manager
Radiochemistry Group

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

CHAIN OF CUSTODY RECORD

Weck Laboratories, Inc.

ENVIRONMENTAL SERVICES

14859 E. Clark Ave. • Industry, CA 91745 • **Tel: (818) 336-2139** **Fax: (818) 336-2634**

CLIENT NAME: Stetson Engineers Inc.

PROJECT: LPVCWD Permit

ADDRESS: 3104 E Garvey Ave So. West Covina, CA 91791

PHONE #: 626-967-6202

PROJECT MANAGER: Kevin Smead

SAMPLER: Chad Blais

P.O.#: 1960-04

ANALYSIS REQUESTED

SPECIAL HANDLING
- ☐ Same Day Rush (60%)
- ☐ 24 HRS (40%)
- ☐ 48 - 72 HRS (30%)
- ☑ 7 - 10 Business Days
- ☐ QA/QC Package

Reporting Agency DHS-EDT

Method of Shipment:

LAB I.D.#	DATE SAMPLED	TIME SAMPLED	SMPL TYPE*	SAMPLE IDENTIFICATION	# OF CONT.	General Mineral	General Physical	Full Metals Scan	EPA 8330 Nitroaromatics and Nitramines	Gross Alpha & Beta	EPA 8270C w/TIC	Perchlorate	NDMA	1,2,3-Trichloropropane	EPA 524.2 w/TIC	REMARKS
2122T24-01	12-27-02	11:55 am	GW	La Puente Valley County Water District Well 3 1910060-003	8	1 X	1 X	1 X	2 X	2 X	3 X					Store Rad bottle 2 of 2 until 12-5-04
-02	12-27-02	12:55 pm	DW	La Puente Valley County Water District SP-6 1910060-013	16	1 X	1 X	1 X	1 X	1 X	2 X	1 X	2 X	3 X	3 X	
-03				TRAVEL BLANK											X	Report T.B. only if sample is positive (1 TB. used for this and T22 sampling)

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	12-27-02 15:30	[signature]
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

* = AQ - Aqueous NA - Nonaqueous SL-Sludge DW - Drinking Water WW-Wastewater GW-Groundwater SO-Soil SW-Solid Waste OT-Other

Sample Condition: 19°C
- Precooled Y / N
- Preserved Y / N
- Evidence seals intact Y / N
- Container Attacked Y / N
- Preserved at Lab Y / N

Disposition of samples:
- Pick Up by client:
- Return*:
- Dispose by Lab*:

* Extra charge added

SPECIAL REQUIREMENTS OR INSTRUCTIONS

CHAIN OF CUSTODY RECORD

Weck Laboratories, Inc.

ENVIRONMENTAL SERVICES

14859 E. Clark Ave. • Industry, CA 91745 • Tel: (818) 336-2139 Fax: (818) 336-2634

Page 2 Of 3

CLIENT NAME: Stetson Engineers Inc.

PROJECT: LPVCWD Permit

ADDRESS: 3104 E Garvey Ave So. West Covina, CA 91791

PHONE #: (626) 967-6202

PROJECT MANAGER: Kevin Smead

SAMPLER: Chad Blais

P.O.#: 1960-04

ANALYSIS REQUESTED

SPECIAL HANDLING
- ☐ Same Day Rush (60%)
- ☐ 24 HRS (40%)
- ☐ 48 - 72 HRS (30%)
- ☑ 7 - 10 Business Days
- ☐ QA/QC Package

Reporting Agency DHS / EDT

Method of Shipment:

LAB I.D.#	DATE SAMPLED	TIME SAMPLED	SMPL TYPE*	SAMPLE IDENTIFICATION	# OF CONT.	EPA 531.1	EPA 549.1	EPA 504.1	EPA 507	EPA 508	EPA 515.3	EPA 525.2	EPA 547	EPA 548	EPA 1613	REMARKS
2122724-02	12-27-02	12:55 pm	DW	La Puente Valley County Water District SP-6 1910060-013	12	X	X	X	X	X	X	X	X	X	X	
						1	1	2	4	1	1	1	1	1	2	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	12-27-02 13:30	Dean [signature]
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

* = AQ - Aqueous NA - Nonaqueous SL-Sludge DW - Drinking Water WW-Wastewater GW-Groundwater SO-Soil SW-Solid Waste OT-Other

Sample Condition: 19°C
- Precooled Y / N
- Preserved Y / N
- Evidence seals intact Y / N
- Container Attacked Y / N
- Preserved at Lab Y / N

Disposition of samples:
- Pick Up by client:
- Return*:
- Dispose by Lab*:

* Extra charge added

SPECIAL REQUIREMENTS OR INSTRUCTIONS

CHAIN OF CUSTODY RECORD

Weck Laboratories, Inc.

ENVIRONMENTAL SERVICES

14859 E. Clark Ave. • Industry, CA 91745 • Tel: (818) 336-2139 Fax: (818) 336-2634

CLIENT NAME: Stetson Engineers Inc.

PROJECT: LPVCWD Permit

ADDRESS: 3104 E Garvey Ave So, West Covina, CA 91791

PHONE #: (626) 967-6202

PROJECT MANAGER: Kevin Smead

SAMPLER: Chad Biais

P.O.#: 1960-04

ANALYSIS REQUESTED: 1,4-Dioxane; Cr VI 1636 EPA 218.6; 3:10 alternity

SPECIAL HANDLING
- ☐ Same Day Rush (60%)
- ☐ 24 HRS (40%)
- ☐ 48 - 72 HRS (30%)
- ☒ 7 - 10 Business Days
- ☐ QA/QC Package

Reporting Agency DHS-EDT

Method of Shipment:

LAB I.D.#	DATE SAMPLED	TIME SAMPLED	SMPL TYPE*	SAMPLE IDENTIFICATION	# OF CONT.	1,4-Dioxane	Cr VI 1636 EPA 218.6	REMARKS
2122724-01	12-27-02	11:55 am	GW	La Puente Valley County Water Dist, Well 3 19100060-003	1	X	X	1 1-Liter Amber bottle for QA/QC
↓ -02	12-27-02	12:55 pm	DW	La Puente Valley County Water District SP-6 19100060-013	1	X	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	12-27-02 13:30	[signature]
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

* = AQ - Aqueous NA - Nonaqueous SL-Sludge DW - Drinking Water WW-Wastewater GW-Groundwater SO-Soil SW-Solid Waste OT-Other

Sample Condition: 19°C
- Precooled Y / N
- Preserved Y / N
- Evidence seals intact Y / N
- Container Attacked Y / N
- Preserved at Lab Y / N

Disposition of samples:
- Pick Up by client:
- Return*:
- Dispose by Lab*:

* Extra charge added

SPECIAL REQUIREMENTS OR INSTRUCTIONS

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Report Date: Friday, January 31, 2003
Received Date: Friday, December 27, 2002
Received Time: 3:00 pm
Turnaround Time: Normal

Client: Stetson Engineers, Inc.
3104 East Garvey Avenue
West Covina, CA 91791

Phone: (626) 967-6202
FAX: (626) 331-7065

Attn: Kevin Smead
Project: LPVCWD Permit
P.O.#:

Quality Control Report

Weck Laboratories, Inc

*** DEFAULT GENERAL METHOD *** - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301551 - * DEFAULT PREP *****									
Blank (W301551-BLK1)					Prepared & Analyzed: 23-Jan-03				
2,3,7,8-TCDD		ND		pg/l					

Weck Laboratories, Inc

Glyphosate by EPA 547 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212859 - EPA 547 - dir. inj.									
Blank (W212859-BLK1)					Prepared & Analyzed: 31-Dec-02				
Glyphosate		ND		ug/l					
LCS (W212859-BS1)					Prepared & Analyzed: 31-Dec-02				
Glyphosate		22.3		ug/l	20.0	112	69-129		
Matrix Spike (W212859-MS1)			Source: 2122606-01		Prepared & Analyzed: 31-Dec-02				
Glyphosate	ND	20.6		ug/l	20.0	103	69-129		
Matrix Spike Dup (W212859-MSD1)			Source: 2122606-01		Prepared & Analyzed: 31-Dec-02				
Glyphosate	ND	21.6		ug/l	20.0	108	69-129	4.74	30

Weck Laboratories, Inc

Perchlorate by EPA 314.0 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301157 - EPA 314.0, dir. inj.									

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Quality Control Report

Weck Laboratories, Inc

Perchlorate by EPA 314.0 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301157 - EPA 314.0, dir. inj.									
Blank (W301157-BLK1)					Prepared & Analyzed: 07-Jan-03				
Perchlorate		ND		ug/l					
LCS (W301157-BS1)					Prepared & Analyzed: 07-Jan-03				
Perchlorate		21.0		ug/l	20.0	105	85-115		
Matrix Spike (W301157-MS1)			Source: 2122020-01		Prepared: 07-Jan-03 Analyzed: 08-Jan-03				
Perchlorate	ND	20.2		ug/l	20.0	101	80-120		
Matrix Spike Dup (W301157-MSD1)			Source: 2122020-01		Prepared: 07-Jan-03 Analyzed: 08-Jan-03				
Perchlorate	ND	21.0		ug/l	20.0	105	80-120	3.88	15

Weck Laboratories, Inc

Dissolved Hexavalent Chromium by IC, EPA 218.6 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212753 - EPA 218.6, dir. inj.									
Blank (W212753-BLK1)					Prepared & Analyzed: 27-Dec-02				
Hexavalent Chromium		ND		ug/l					
LCS (W212753-BS1)					Prepared & Analyzed: 27-Dec-02				
Hexavalent Chromium		1.09		ug/l	1.00	109	90-110		
Matrix Spike (W212753-MS1)			Source: 2122703-02		Prepared & Analyzed: 27-Dec-02				
Hexavalent Chromium	ND	4.56		ug/l	5.00	91.2	90-110		
Matrix Spike Dup (W212753-MSD1)			Source: 2122703-02		Prepared & Analyzed: 27-Dec-02				
Hexavalent Chromium	ND	4.59		ug/l	5.00	91.8	90-110	0.656	10

Weck Laboratories, Inc

1,2,3-TCP by P&T GC/MS SIM Mode - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301087 - EPA 524 P&T									
Blank (W301087-BLK1)					Prepared & Analyzed: 03-Jan-03				
1,2,3-Trichloropropane		ND		ng/l					

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Quality Control Report

Weck Laboratories, Inc

1,2,3-TCP by P&T GC/MS SIM Mode - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301087 - EPA 524 P&T									
LCS (W301087-BS1)					Prepared & Analyzed: 03-Jan-03				
1,2,3-Trichloropropane		52.1		ng/l	50.0	104	80-120		
LCS Dup (W301087-BSD1)					Prepared & Analyzed: 03-Jan-03				
1,2,3-Trichloropropane		52.9		ng/l	50.0	106	80-120	1.52	20
Matrix Spike (W301087-MS1)			Source: 2122721-02		Prepared & Analyzed: 03-Jan-03				
1,2,3-Trichloropropane	ND	53.6		ng/l	50.0	107	0-200		
Matrix Spike Dup (W301087-MSD1)			Source: 2122721-02		Prepared & Analyzed: 03-Jan-03				
1,2,3-Trichloropropane	ND	49.1		ng/l	50.0	98.2	0-200	8.76	200

Weck Laboratories, Inc

EDB, DBCP and 123TCP by EPA Method 504.1 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301064 - Micro Extraction									
Blank (W301064-BLK1)					Prepared & Analyzed: 03-Jan-03				
1,2-Dibromoethane (EDB)		ND		ug/l					
1,2-Dibromo-3-chloropropane		ND		ug/l					
LCS (W301064-BS1)					Prepared & Analyzed: 03-Jan-03				
1,2-Dibromoethane (EDB)		0.0250		ug/l	0.0200	125	60-140		
1,2-Dibromo-3-chloropropane		0.0270		ug/l	0.0200	135	60-140		
Matrix Spike (W301064-MS1)			Source: 2122335-01		Prepared & Analyzed: 03-Jan-03				
1,2-Dibromoethane (EDB)	ND	0.259		ug/l	0.250	104	65-135		
1,2-Dibromo-3-chloropropane	ND	0.208		ug/l	0.250	83.2	65-135		
Matrix Spike Dup (W301064-MSD1)			Source: 2122335-01		Prepared & Analyzed: 03-Jan-03				
1,2-Dibromoethane (EDB)	ND	0.254		ug/l	0.250	102	65-135	1.95	30
1,2-Dibromo-3-chloropropane	ND	0.199		ug/l	0.250	79.6	65-135	4.42	30

Weck Laboratories, Inc

N & P Pesticides by EPA 507 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212856 - EPA 3510C									

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Quality Control Report

Weck Laboratories, Inc

N & P Pesticides by EPA 507 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212856 - EPA 3510C									
Blank (W212856-BLK1)					Prepared: 31-Dec-02 Analyzed: 07-Jan-03				
Alachlor		ND		ug/l					
Atrazine		ND		ug/l					
Bromacil		ND		ug/l					
Butachlor		ND		ug/l					
Diazinon		ND		ug/l					
Dimethoate		ND		ug/l					
Metolachlor		ND		ug/l					
Metribuzin		ND		ug/l					
Molinate		ND		ug/l					
Prometon		ND		ug/l					
Prometryn		ND		ug/l					
Simazine		ND		ug/l					
Thiobencarb		ND		ug/l					
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*1.82*		ug/l	*2.50*	*72.8*	*70-130*		
LCS (W212856-BS1)					Prepared: 31-Dec-02 Analyzed: 07-Jan-03				
Alachlor		3.32		ug/l	4.00	83.0	25-160		
Atrazine		0.838		ug/l	1.00	83.8	22-156		
Bromacil		16.7		ug/l	20.0	83.5	28-168		
Butachlor		1.64		ug/l	2.00	82.0	23-160		
Diazinon		0.880		ug/l	1.00	88.0	14-157		
Metolachlor		1.55		ug/l	2.00	77.5	34-138		
Metribuzin		1.65		ug/l	2.00	82.5	44-132		
Molinate		0.808		ug/l	1.00	80.8	24-163		
Prometryn		0.824		ug/l	1.00	82.4	21-160		
Simazine		0.833		ug/l	1.00	83.3	29-162		
Thiobencarb		3.30		ug/l	4.00	82.5	33-154		
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*2.20*		ug/l	*2.50*	*88.0*	*70-130*		
Matrix Spike (W212856-MS1)		**Source: 2122710-01**			Prepared: 31-Dec-02 Analyzed: 07-Jan-03				
Alachlor	ND	3.14		ug/l	4.00	78.5	60-130		
Atrazine	ND	0.789		ug/l	1.00	78.9	57-127		
Bromacil	ND	16.3		ug/l	20.0	81.5	56-126		
Butachlor	ND	1.58		ug/l	2.00	79.0	58-128		
Diazinon	ND	0.802		ug/l	1.00	80.2	58-128		
Metolachlor	ND	1.52		ug/l	2.00	76.0	23-149		
Metribuzin	ND	1.47		ug/l	2.00	73.5	66-136		
Molinate	ND	0.752		ug/l	1.00	75.2	63-133		
Prometryn	ND	0.780		ug/l	1.00	78.0	58-128		
Simazine	ND	0.780		ug/l	1.00	78.0	65-135		
Thiobencarb	ND	3.20		ug/l	4.00	80.0	26-167		

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Quality Control Report

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N & P Pesticides by EPA 507 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212856 - EPA 3510C									
Matrix Spike (W212856-MS1)		Source: 2122710-01			Prepared: 31-Dec-02 Analyzed: 07-Jan-03				
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*1.99*		ug/l	*2.50*	*79.6*	*70-130*		
Matrix Spike Dup (W212856-MSD1)		Source: 2122710-01			Prepared: 31-Dec-02 Analyzed: 07-Jan-03				
Alachlor	ND	3.36		ug/l	4.00	84.0	60-130	6.77	30
Atrazine	ND	0.815		ug/l	1.00	81.5	57-127	3.24	30
Bromacil	ND	16.8		ug/l	20.0	84.0	56-126	3.02	30
Butachlor	ND	1.57		ug/l	2.00	78.5	58-128	0.635	30
Diazinon	ND	0.847		ug/l	1.00	84.7	58-128	5.46	30
Metolachlor	ND	1.57		ug/l	2.00	78.5	23-149	3.24	30
Metribuzin	ND	1.63		ug/l	2.00	81.5	66-136	10.3	30
Molinate	ND	0.799		ug/l	1.00	79.9	63-133	6.06	30
Prometryn	ND	0.830		ug/l	1.00	83.0	58-128	6.21	30
Simazine	ND	0.796		ug/l	1.00	79.6	65-135	2.03	30
Thiobencarb	ND	3.35		ug/l	4.00	83.8	26-167	4.58	30
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*2.02*		ug/l	*2.50*	*80.8*	*70-130*		

Weck Laboratories, Inc

Endothall By EPA 548.1 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212801 - EPA 548.1									
Blank (W212801-BLK1)					Prepared: 30-Dec-02 Analyzed: 02-Jan-03				
Endothall		ND		ug/l					
LCS (W212801-BS1)					Prepared: 30-Dec-02 Analyzed: 03-Jan-03				
Endothall		ND		ug/l	100	42.5	17-144		
Matrix Spike (W212801-MS1)		Source: 2122724-02			Prepared: 30-Dec-02 Analyzed: 03-Jan-03				
Endothall	ND	ND		ug/l	1000	24.1	0.1-132		
Matrix Spike Dup (W212801-MSD1)		Source: 2122724-02			Prepared: 30-Dec-02 Analyzed: 03-Jan-03				
Endothall	ND	ND		ug/l	1000	24.6	0.1-132	2.05	30

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Diquat and Paraquat by EPA 549.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit

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Diquat and Paraquat by EPA 549.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212800 - EPA 549.2									
Blank (W212800-BLK1)					Prepared: 30-Dec-02 Analyzed: 07-Jan-03				
Diquat		ND		ug/l					
Paraquat		ND		ug/l					
LCS (W212800-BS1)					Prepared: 30-Dec-02 Analyzed: 07-Jan-03				
Diquat		20.0		ug/l	20.0	100	70-130		
Paraquat		17.6		ug/l	20.0	88.0	70-130		
Matrix Spike (W212800-MS1)			Source: 2122724-02		Prepared: 30-Dec-02 Analyzed: 07-Jan-03				
Diquat	ND	20.3		ug/l	20.0	102	70-130		
Paraquat	ND	18.7		ug/l	20.0	93.5	70-130		
Matrix Spike Dup (W212800-MSD1)			Source: 2122724-02		Prepared: 30-Dec-02 Analyzed: 07-Jan-03				
Diquat	ND	21.6		ug/l	20.0	108	70-130	6.21	30
Paraquat	ND	20.0		ug/l	20.0	100	70-130	6.72	30

Weck Laboratories, Inc

Metals (Aqueous) by EPA 200 Series Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301166 - EPA 200.2									
Blank (W301166-BLK1)					Prepared: 08-Jan-03 Analyzed: 10-Jan-03				
Total Silica (SiO2)		ND		mg/l					
Total Boron		ND		ug/l					
Calcium		ND		mg/l					
Cerium		ND		ug/l					
Total Iron		ND		ug/l					
Potassium		ND		mg/l					
Lithium		ND		ug/l					
Magnesium		ND		mg/l					
Sodium		ND		mg/l					
Total Phosphorus		ND		ug/l					
LCS (W301166-BS1)					Prepared: 08-Jan-03 Analyzed: 10-Jan-03				
Total Silica (SiO2)		2.02		mg/l	2.14	94.4	85-115		
Total Boron		189		ug/l	200	94.5	85-115		
Calcium		47.1		mg/l	50.2	93.8	85-115		
Cerium		1920		ug/l	2000	96.0	85-115		
Total Iron		199		ug/l	200	99.5	85-115		
Potassium		50.2		mg/l	52.0	96.5	85-115		

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Quality Control Report

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Metals (Aqueous) by EPA 200 Series Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301166 - EPA 200.2									
LCS (W301166-BS1)					Prepared: 08-Jan-03 Analyzed: 10-Jan-03				
Lithium		172		ug/l	200	86.0	85-115		
Magnesium		50.6		mg/l	50.2	101	85-115		
Sodium		48.4		mg/l	50.2	96.4	85-115		
Total Phosphorus		1940		ug/l	2000	97.0	85-115		
Matrix Spike (W301166-MS1)		Source: 2122724-01			Prepared: 08-Jan-03 Analyzed: 10-Jan-03				
Total Silica (SiO2)	24	26.4		mg/l	2.14	112	70-130		
Total Boron	33	231		ug/l	200	99.0	70-130		
Calcium	55	101		mg/l	50.2	91.6	70-130		
Cerium	9.0	1920		ug/l	2000	95.6	70-130		
Total Iron	ND	200		ug/l	200	100	70-130		
Potassium	2.4	54.3		mg/l	52.0	99.8	70-130		
Lithium	ND	184		ug/l	200	92.0	70-130		
Magnesium	14	63.5		mg/l	50.2	98.6	70-130		
Sodium	21	70.0		mg/l	50.2	97.6	70-130		
Total Phosphorus	55	1950		ug/l	2000	94.8	70-130		
Matrix Spike Dup (W301166-MSD1)		Source: 2122724-01			Prepared: 08-Jan-03 Analyzed: 10-Jan-03				
Total Silica (SiO2)	24	26.3		mg/l	2.14	107	70-130	0.380	20
Total Boron	33	233		ug/l	200	100	70-130	0.862	20
Calcium	55	101		mg/l	50.2	91.6	70-130	0.00	20
Cerium	9.0	1920		ug/l	2000	95.6	70-130	0.00	20
Total Iron	ND	205		ug/l	200	102	70-130	2.47	20
Potassium	2.4	54.1		mg/l	52.0	99.4	70-130	0.369	20
Lithium	ND	184		ug/l	200	92.0	70-130	0.00	20
Magnesium	14	63.3		mg/l	50.2	98.2	70-130	0.315	20
Sodium	21	70.3		mg/l	50.2	98.2	70-130	0.428	20
Total Phosphorus	55	1980		ug/l	2000	96.2	70-130	1.53	20
Batch W301218 - EPA 200.2									
Blank (W301218-BLK1)					Prepared & Analyzed: 09-Jan-03				
Total Beryllium		ND		ug/l					
Total Aluminum		ND		ug/l					
Total Titanium		ND		ug/l					
Total Vanadium		ND		ug/l					
Total Chromium		ND		ug/l					
Total Manganese		ND		ug/l					
Total Cobalt		ND		ug/l					
Total Nickel		ND		ug/l					

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Quality Control Report

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Metals (Aqueous) by EPA 200 Series Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301218 - EPA 200.2									
Blank (W301218-BLK1)					Prepared & Analyzed: 09-Jan-03				
Total Copper		ND		ug/l					
Total Zinc		ND		ug/l					
Total Arsenic		ND		ug/l					
Total Selenium		ND		ug/l					
Total Strontium		ND		ug/l					
Total Silver		ND		ug/l					
Total Zirconium		ND		ug/l					
Total Molybdenum		ND		ug/l					
Total Cadmium		ND		ug/l					
Total Tin		ND		ug/l					
Total Antimony		ND		ug/l					
Total Barium		ND		ug/l					
Total Tungsten		ND		ug/l					
Total Thallium		ND		ug/l					
Total Thorium		ND		ug/l					
Total Lead		ND		ug/l					
Total Uranium		ND		ug/l					
LCS (W301218-BS1)					Prepared & Analyzed: 09-Jan-03				
Total Beryllium		51.0		ug/l	50.0	102	85-115		
Total Aluminum		52.2		ug/l	50.0	104	85-115		
Total Titanium		50.7		ug/l	50.0	101	85-115		
Total Vanadium		50.6		ug/l	50.0	101	85-115		
Total Chromium		50.2		ug/l	50.0	100	85-115		
Total Manganese		51.1		ug/l	50.0	102	85-115		
Total Cobalt		50.8		ug/l	50.0	102	85-115		
Total Nickel		50.9		ug/l	50.0	102	85-115		
Total Copper		53.4		ug/l	50.0	107	85-115		
Total Zinc		50.3		ug/l	50.0	101	85-115		
Total Arsenic		47.5		ug/l	50.0	95.0	85-115		
Total Selenium		48.9		ug/l	50.0	97.8	85-115		
Total Strontium		50.4		ug/l	50.0	101	85-115		
Total Silver		51.4		ug/l	50.0	103	85-115		
Total Zirconium		50.8		ug/l	50.0	102	85-115		
Total Molybdenum		51.5		ug/l	50.0	103	85-115		
Total Cadmium		50.1		ug/l	50.0	100	85-115		
Total Tin		50.7		ug/l	50.0	101	85-115		
Total Antimony		49.9		ug/l	50.0	99.8	85-115		
Total Barium		50.2		ug/l	50.0	100	85-115		
Total Tungsten		49.2		ug/l	50.0	98.4	85-115		
Total Thallium		51.4		ug/l	50.0	103	85-115		

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Quality Control Report

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Metals (Aqueous) by EPA 200 Series Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301218 - EPA 200.2									
LCS (W301218-BS1)					Prepared & Analyzed: 09-Jan-03				
Total Thorium		50.6		ug/l	50.0	101	85-115		
Total Lead		51.1		ug/l	50.0	102	85-115		
Total Uranium		52.6		ug/l	50.0	105	85-115		
Matrix Spike (W301218-MS1)		Source: 2122724-01			Prepared & Analyzed: 09-Jan-03				
Total Beryllium	ND	51.2		ug/l	50.0	102	70-130		
Total Aluminum	18	64.4		ug/l	50.0	92.8	70-130		
Total Titanium	0.81	50.9		ug/l	50.0	100	70-130		
Total Vanadium	5.0	54.1		ug/l	50.0	98.2	70-130		
Total Chromium	4.1	52.3		ug/l	50.0	96.4	70-130		
Total Manganese	0.18	48.6		ug/l	50.0	96.8	70-130		
Total Cobalt	0.037	48.3		ug/l	50.0	96.5	70-130		
Total Nickel	0.82	48.1		ug/l	50.0	94.6	70-130		
Total Copper	13	60.7		ug/l	50.0	95.4	70-130		
Total Zinc	3.1	51.2		ug/l	50.0	96.2	70-130		
Total Arsenic	1.4	49.3		ug/l	50.0	95.8	70-130		
Total Selenium	0.78	49.2		ug/l	50.0	96.8	70-130		
Total Strontium	290	335		ug/l	50.0	90.0	70-130		
Total Silver	ND	47.5		ug/l	50.0	95.0	70-130		
Total Zirconium	ND	49.2		ug/l	50.0	98.4	70-130		
Total Molybdenum	4.5	54.7		ug/l	50.0	100	70-130		
Total Cadmium	ND	49.3		ug/l	50.0	98.6	70-130		
Total Tin	0.79	51.1		ug/l	50.0	101	70-130		
Total Antimony	ND	50.3		ug/l	50.0	101	70-130		
Total Barium	92	135		ug/l	50.0	86.0	70-130		
Total Tungsten	0.81	50.3		ug/l	50.0	99.0	70-130		
Total Thallium	0.059	49.5		ug/l	50.0	98.9	70-130		
Total Thorium	ND	51.4		ug/l	50.0	103	70-130		
Total Lead	1.1	49.9		ug/l	50.0	97.6	70-130		
Total Uranium	3.8	58.8		ug/l	50.0	110	70-130		
Matrix Spike Dup (W301218-MSD1)		Source: 2122724-01			Prepared & Analyzed: 09-Jan-03				
Total Beryllium	ND	50.8		ug/l	50.0	102	70-130	0.784	30
Total Aluminum	18	64.3		ug/l	50.0	92.6	70-130	0.155	30
Total Titanium	0.81	49.8		ug/l	50.0	98.0	70-130	2.18	30
Total Vanadium	5.0	54.0		ug/l	50.0	98.0	70-130	0.185	30
Total Chromium	4.1	52.5		ug/l	50.0	96.8	70-130	0.382	30
Total Manganese	0.18	49.7		ug/l	50.0	99.0	70-130	2.24	30
Total Cobalt	0.037	48.6		ug/l	50.0	97.1	70-130	0.619	30
Total Nickel	0.82	49.1		ug/l	50.0	96.6	70-130	2.06	30
Total Copper	13	62.6		ug/l	50.0	99.2	70-130	3.08	30

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Quality Control Report

Weck Laboratories, Inc

Metals (Aqueous) by EPA 200 Series Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301218 - EPA 200.2									
Matrix Spike Dup (W301218-MSD1)		**Source: 2122724-01**			Prepared & Analyzed: 09-Jan-03				
Total Zinc	3.1	52.2		ug/l	50.0	98.2	70-130	1.93	30
Total Arsenic	1.4	50.5		ug/l	50.0	98.2	70-130	2.40	30
Total Selenium	0.78	50.8		ug/l	50.0	100	70-130	3.20	30
Total Strontium	290	343		ug/l	50.0	106	70-130	2.36	30
Total Silver	ND	48.6		ug/l	50.0	97.2	70-130	2.29	30
Total Zirconium	ND	50.4		ug/l	50.0	101	70-130	2.41	30
Total Molybdenum	4.5	56.9		ug/l	50.0	105	70-130	3.94	30
Total Cadmium	ND	50.4		ug/l	50.0	101	70-130	2.21	30
Total Tin	0.79	50.8		ug/l	50.0	100	70-130	0.589	30
Total Antimony	ND	53.1		ug/l	50.0	106	70-130	5.42	30
Total Barium	92	141		ug/l	50.0	98.0	70-130	4.35	30
Total Tungsten	0.81	52.3		ug/l	50.0	103	70-130	3.90	30
Total Thallium	0.059	51.1		ug/l	50.0	102	70-130	3.18	30
Total Thorium	ND	50.9		ug/l	50.0	102	70-130	0.978	30
Total Lead	1.1	52.1		ug/l	50.0	102	70-130	4.31	30
Total Uranium	3.8	59.0		ug/l	50.0	110	70-130	0.340	30
Batch W301287 - EPA 245.1									
Blank (W301287-BLK1)					Prepared: 13-Jan-03 Analyzed: 15-Jan-03				
Total Mercury		ND		ug/l					
LCS (W301287-BS1)					Prepared: 13-Jan-03 Analyzed: 15-Jan-03				
Total Mercury		1.06		ug/l	1.00	106	85-115		
Matrix Spike (W301287-MS1)		**Source: 2122724-01**			Prepared: 13-Jan-03 Analyzed: 15-Jan-03				
Total Mercury	ND	1.07		ug/l	1.00	107	70-130		
Matrix Spike (W301287-MS2)		**Source: 3011037-04**			Prepared: 13-Jan-03 Analyzed: 15-Jan-03				
Total Mercury	ND	1.08		ug/l	1.00	108	70-130		
Matrix Spike Dup (W301287-MSD1)		**Source: 2122724-01**			Prepared: 13-Jan-03 Analyzed: 15-Jan-03				
Total Mercury	ND	1.06		ug/l	1.00	106	70-130	0.939	20
Matrix Spike Dup (W301287-MSD2)		**Source: 3011037-04**			Prepared: 13-Jan-03 Analyzed: 15-Jan-03				
Total Mercury	ND	1.06		ug/l	1.00	106	70-130	1.87	20

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NDMA by isotopic dilution GC/MS CI Mode - Quality Control

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Quality Control Report

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301066 - 3520									
Blank (W301066-BLK1)					Prepared: 03-Jan-03 Analyzed: 05-Jan-03				
N-Nitrosodimethylamine		ND		ng/l					
LCS (W301066-BS1)					Prepared: 03-Jan-03 Analyzed: 05-Jan-03				
N-Nitrosodimethylamine		11.7		ng/l	10.0	117	70-130		
LCS (W301066-BS2)					Prepared: 03-Jan-03 Analyzed: 06-Jan-03				
N-Nitrosodimethylamine		2.53		ng/l	2.00	126	50-150		
Matrix Spike (W301066-MS1)			Source: 2122712-03		Prepared: 03-Jan-03 Analyzed: 05-Jan-03				
N-Nitrosodimethylamine	ND	15.4		ng/l	20.0	77.0	70-130		
Matrix Spike Dup (W301066-MSD1)			Source: 2122712-03		Prepared: 03-Jan-03 Analyzed: 05-Jan-03				
N-Nitrosodimethylamine	ND	34.6	QR-02	ng/l	40.0	86.5	70-130	76.8	30

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Chlorinated Pesticides and PCBs by EPA Method 508 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301014 - EPA 508									
Blank (W301014-BLK1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Aldrin		ND		ug/l					
alpha-BHC		ND		ug/l					
beta-BHC		ND		ug/l					
delta-BHC		ND		ug/l					
gamma-BHC (Lindane)		ND		ug/l					
4,4'-DDD		ND		ug/l					
4,4'-DDE		ND		ug/l					
4,4'-DDT		ND		ug/l					
Dieldrin		ND		ug/l					
Endosulfan I		ND		ug/l					
Endosulfan II		ND		ug/l					
Endosulfan sulfate		ND		ug/l					
Endrin		ND		ug/l					
Endrin aldehyde		ND		ug/l					
Heptachlor		ND		ug/l					
Heptachlor epoxide		ND		ug/l					
Methoxychlor		ND		ug/l					
Chlorothalonil		ND		ug/l					
Hexachlorobenzene		ND		ug/l					
Hexachlorocyclopentadiene		ND		ug/l					
Propachlor		ND		ug/l					

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Quality Control Report

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Chlorinated Pesticides and PCBs by EPA Method 508 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301014 - EPA 508									
Blank (W301014-BLK1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Trifluralin		ND		ug/l					
Chlordane (tech)		ND		ug/l					
Toxaphene		ND		ug/l					
PCB-1016		ND		ug/l					
PCB-1221		ND		ug/l					
PCB-1232		ND		ug/l					
PCB-1242		ND		ug/l					
PCB-1248		ND		ug/l					
PCB-1254		ND		ug/l					
PCB-1260		ND		ug/l					
Surrogate: Decachlorobiphenyl		*0.105*		ug/l	*0.100*	*105*	*70-130*		
Surrogate: Tetrachloro-meta-xylene		*0.0918*		ug/l	*0.100*	*91.8*	*70-130*		
LCS (W301014-BS1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Aldrin		0.0894		ug/l	0.100	89.4	40-129		
alpha-BHC		0.0915		ug/l	0.100	91.5	34-127		
beta-BHC		0.0985		ug/l	0.100	98.5	41-141		
delta-BHC		0.0960		ug/l	0.100	96.0	34-139		
gamma-BHC (Lindane)		0.0924		ug/l	0.100	92.4	42-134		
4,4'-DDD		0.107		ug/l	0.100	107	45-130		
4,4'-DDE		0.103		ug/l	0.100	103	48-126		
4,4'-DDT		0.100		ug/l	0.100	100	33-146		
Dieldrin		0.0801		ug/l	0.100	80.1	47-128		
Endosulfan I		0.0881		ug/l	0.100	88.1	49-123		
Endosulfan II		0.0910		ug/l	0.100	91.0	50-117		
Endosulfan sulfate		0.103		ug/l	0.100	103	31-211		
Endrin		0.0999		ug/l	0.100	99.9	32-163		
Endrin aldehyde		0.111		ug/l	0.100	111	40-139		
Heptachlor		0.0929		ug/l	0.100	92.9	35-151		
Heptachlor epoxide		0.0917		ug/l	0.100	91.7	53-128		
Methoxychlor		0.111		ug/l	0.100	111	64-146		
Surrogate: Decachlorobiphenyl		*0.111*		ug/l	*0.100*	*111*	*70-130*		
Surrogate: Tetrachloro-meta-xylene		*0.0889*		ug/l	*0.100*	*88.9*	*70-130*		
Matrix Spike (W301014-MS1)		**Source: 2122721-02**			Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Aldrin	ND	0.185		ug/l	0.200	92.5	51-121		
alpha-BHC	ND	0.191		ug/l	0.200	95.5	57-127		
beta-BHC	ND	0.204		ug/l	0.200	102	60-130		
delta-BHC	ND	0.202		ug/l	0.200	101	67-137		
gamma-BHC (Lindane)	ND	0.191		ug/l	0.200	95.5	54-124		
4,4'-DDD	ND	0.229		ug/l	0.200	114	72-142		

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Quality Control Report

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Chlorinated Pesticides and PCBs by EPA Method 508 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301014 - EPA 508									
Matrix Spike (W301014-MS1)		Source: 2122721-02			Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
4,4'-DDE	ND	0.213		ug/l	0.200	106	64-134		
4,4'-DDT	ND	0.219		ug/l	0.200	110	77-147		
Dieldrin	ND	0.172		ug/l	0.200	86.0	52-122		
Endosulfan I	ND	0.182		ug/l	0.200	91.0	52-122		
Endosulfan II	ND	0.197		ug/l	0.200	98.5	57-127		
Endosulfan sulfate	ND	0.211		ug/l	0.200	106	67-137		
Endrin	ND	0.215		ug/l	0.200	108	53-123		
Endrin aldehyde	ND	0.218		ug/l	0.200	109	53-123		
Heptachlor	ND	0.194		ug/l	0.200	97.0	63-133		
Heptachlor epoxide	ND	0.190		ug/l	0.200	95.0	52-122		
Methoxychlor	ND	0.245		ug/l	0.200	122	70-140		
Surrogate: Decachlorobiphenyl		*0.222*		ug/l	*0.200*	*111*	*70-130*		
Surrogate: Tetrachloro-meta-xylene		*0.200*		ug/l	*0.200*	*100*	*70-130*		
Matrix Spike Dup (W301014-MSD1)		Source: 2122721-02			Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Aldrin	ND	0.195		ug/l	0.200	97.5	51-121	5.26	30
alpha-BHC	ND	0.198		ug/l	0.200	99.0	57-127	3.60	30
beta-BHC	ND	0.214		ug/l	0.200	107	60-130	4.78	30
delta-BHC	ND	0.212		ug/l	0.200	106	67-137	4.83	30
gamma-BHC (Lindane)	ND	0.200		ug/l	0.200	100	54-124	4.60	30
4,4'-DDD	ND	0.226		ug/l	0.200	113	72-142	1.32	30
4,4'-DDE	ND	0.223		ug/l	0.200	112	64-134	4.59	30
4,4'-DDT	ND	0.218		ug/l	0.200	109	77-147	0.458	30
Dieldrin	ND	0.170		ug/l	0.200	85.0	52-122	1.17	30
Endosulfan I	ND	0.190		ug/l	0.200	95.0	52-122	4.30	30
Endosulfan II	ND	0.207		ug/l	0.200	104	57-127	4.95	30
Endosulfan sulfate	ND	0.211		ug/l	0.200	106	67-137	0.00	30
Endrin	ND	0.224		ug/l	0.200	112	53-123	4.10	30
Endrin aldehyde	ND	0.234		ug/l	0.200	117	53-123	7.08	30
Heptachlor	ND	0.205		ug/l	0.200	102	63-133	5.51	30
Heptachlor epoxide	ND	0.198		ug/l	0.200	99.0	52-122	4.12	30
Methoxychlor	ND	0.241		ug/l	0.200	120	70-140	1.65	30
Surrogate: Decachlorobiphenyl		*0.233*		ug/l	*0.200*	*116*	*70-130*		
Surrogate: Tetrachloro-meta-xylene		*0.187*		ug/l	*0.200*	*93.5*	*70-130*		

Weck Laboratories, Inc

Chlorinated herbicides by EPA Method 515.3 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit

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Chlorinated herbicides by EPA Method 515.3 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301031 - EPA 515.3									
Blank (W301031-BLK1)					Prepared: 02-Jan-03 Analyzed: 14-Jan-03				
Dalapon		ND		ug/l					
3,5-Dichlorobenzoic acid		ND		ug/l					
Dicamba		ND		ug/l					
Dichloroprop		ND		ug/l					
2,4-D		ND		ug/l					
Pentachlorophenol		ND		ug/l					
2,4,5-TP (Silvex)		ND		ug/l					
2,4,5-T		ND		ug/l					
2,4-DB		ND		ug/l					
Dinoseb		ND		ug/l					
Bentazon		ND		ug/l					
DCPA		ND		ug/l					
Picloram		ND		ug/l					
Acifluorfen		ND		ug/l					
Surrogate: 2,4-DCAA			*9.89*	ug/l	*10.0*	*98.9*	*70-130*		
LCS (W301031-BS1)					Prepared: 02-Jan-03 Analyzed: 14-Jan-03				
Dalapon		0.890		ug/l	1.00	89.0	70-130		
3,5-Dichlorobenzoic acid		1.80		ug/l	2.50	72.0	70-130		
Dicamba		1.11		ug/l	1.50	74.0	70-130		
Dichloroprop		0.970		ug/l	1.00	97.0	70-130		
2,4-D		0.810		ug/l	1.00	81.0	70-130		
Pentachlorophenol		0.400		ug/l	0.500	80.0	70-130		
2,4,5-TP (Silvex)		0.430		ug/l	0.500	86.0	70-130		
2,4,5-T		0.450		ug/l	0.500	90.0	70-130		
2,4-DB		5.03		ug/l	5.00	101	70-130		
Dinoseb		0.800		ug/l	1.00	80.0	70-130		
Bentazon		3.80		ug/l	5.00	76.0	70-130		
DCPA		0.380		ug/l	0.500	76.0	70-130		
Picloram		1.27		ug/l	1.50	84.7	70-130		
Acifluorfen		0.820		ug/l	1.00	82.0	70-130		
Surrogate: 2,4-DCAA			*10.6*	ug/l	*10.0*	*106*	*70-130*		
Matrix Spike (W301031-MS1)		**Source: 2122422-01**			Prepared: 02-Jan-03 Analyzed: 14-Jan-03				
Dalapon	ND	0.900		ug/l	1.00	90.0	70-130		
3,5-Dichlorobenzoic acid	ND	2.00		ug/l	2.50	80.0	70-130		
Dicamba	ND	1.15		ug/l	1.50	76.7	70-130		
Dichloroprop	ND	0.780		ug/l	1.00	78.0	70-130		
2,4-D	ND	0.740		ug/l	1.00	74.0	70-130		
Pentachlorophenol	ND	0.390		ug/l	0.500	78.0	70-130		
2,4,5-TP (Silvex)	ND	0.430		ug/l	0.500	86.0	70-130		
2,4,5-T	ND	0.400		ug/l	0.500	80.0	70-130		

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Chlorinated herbicides by EPA Method 515.3 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301031 - EPA 515.3									
Matrix Spike (W301031-MS1)		**Source: 2122422-01**			Prepared: 02-Jan-03 Analyzed: 14-Jan-03				
2,4-DB	ND	4.45		ug/l	5.00	89.0	70-130		
Dinoseb	ND	0.790		ug/l	1.00	79.0	70-130		
Bentazon	ND	3.78		ug/l	5.00	75.6	70-130		
DCPA	ND	0.370		ug/l	0.500	74.0	70-130		
Picloram	ND	1.23		ug/l	1.50	82.0	70-130		
Acifluorfen	ND	0.790		ug/l	1.00	79.0	70-130		
Surrogate: 2,4-DCAA		*10.2*		ug/l	*10.0*	*102*	*70-130*		
Matrix Spike Dup (W301031-MSD1)		**Source: 2122422-01**			Prepared: 02-Jan-03 Analyzed: 14-Jan-03				
Dalapon	ND	0.880		ug/l	1.00	88.0	70-130	2.25	30
3,5-Dichlorobenzoic acid	ND	1.94		ug/l	2.50	77.6	70-130	3.05	30
Dicamba	ND	1.18		ug/l	1.50	78.7	70-130	2.58	30
Dichloroprop	ND	0.780		ug/l	1.00	78.0	70-130	0.00	30
2,4-D	ND	0.850		ug/l	1.00	85.0	70-130	13.8	30
Pentachlorophenol	ND	0.390		ug/l	0.500	78.0	70-130	0.00	30
2,4,5-TP (Silvex)	ND	0.390		ug/l	0.500	78.0	70-130	9.76	30
2,4,5-T	ND	0.390		ug/l	0.500	78.0	70-130	2.53	30
2,4-DB	ND	5.47		ug/l	5.00	109	70-130	20.6	30
Dinoseb	ND	0.770		ug/l	1.00	77.0	70-130	2.56	30
Bentazon	ND	3.78		ug/l	5.00	75.6	70-130	0.00	30
DCPA	ND	0.370		ug/l	0.500	74.0	70-130	0.00	30
Picloram	ND	1.24		ug/l	1.50	82.7	70-130	0.810	30
Acifluorfen	ND	0.780		ug/l	1.00	78.0	70-130	1.27	30
Surrogate: 2,4-DCAA		*10.4*		ug/l	*10.0*	*104*	*70-130*		

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Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301226 - EPA 524 P&T									
Blank (W301226-BLK1)					Prepared & Analyzed: 02-Jan-03				
1,2-Dibromo-3-chloropropane		ND		ug/l					
1,2-Dibromoethane (EDB)		ND		ug/l					
Dichlorodifluoromethane		ND		ug/l					
Chloromethane		ND		ug/l					
Vinyl chloride		ND		ug/l					
Bromomethane		ND		ug/l					
Chloroethane		ND		ug/l					

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Quality Control Report

Weck Laboratories, Inc

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301226 - EPA 524 P&T									
Blank (W301226-BLK1)					Prepared & Analyzed: 02-Jan-03				
Trichlorofluoromethane		ND		ug/l					
Freon 113		ND		ug/l					
1,1-Dichloroethene		ND		ug/l					
Methylene chloride		ND		ug/l					
trans-1,2-Dichloroethene		ND		ug/l					
Methyl tert-butyl ether		ND		ug/l					
1,1-Dichloroethane		ND		ug/l					
Di-isopropyl ether		ND		ug/l					
Ethyl tert-butyl ether		ND		ug/l					
2-Butanone		ND		ug/l					
2,2-Dichloropropane		ND		ug/l					
cis-1,2-Dichloroethene		ND		ug/l					
Bromochloromethane		ND		ug/l					
Chloroform		ND		ug/l					
1,1,1-Trichloroethane		ND		ug/l					
Carbon tetrachloride		ND		ug/l					
1,1-Dichloropropene		ND		ug/l					
Benzene		ND		ug/l					
1,2-Dichloroethane		ND		ug/l					
Tert-amyl methyl ether		ND		ug/l					
Trichloroethene		ND		ug/l					
1,2-Dichloropropane		ND		ug/l					
Dibromomethane		ND		ug/l					
Bromodichloromethane		ND		ug/l					
cis-1,3-Dichloropropene		ND		ug/l					
4-Methyl-2-pentanone		ND		ug/l					
2-Chloroethylvinyl ether		ND		ug/l					
Toluene		ND		ug/l					
trans-1,3-Dichloropropene		ND		ug/l					
1,1,2-Trichloroethane		ND		ug/l					
Tetrachloroethene		ND		ug/l					
1,3-Dichloropropane		ND		ug/l					
Dibromochloromethane		ND		ug/l					
2-Hexanone		ND		ug/l					
Chlorobenzene		ND		ug/l					
1,1,1,2-Tetrachloroethane		ND		ug/l					
Ethylbenzene		ND		ug/l					
m,p-Xylene		ND		ug/l					
o-Xylene		ND		ug/l					
Styrene		ND		ug/l					
Bromoform		ND		ug/l					

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Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301226 - EPA 524 P&T									
Blank (W301226-BLK1)					Prepared & Analyzed: 02-Jan-03				
Isopropylbenzene		ND		ug/l					
Bromobenzene		ND		ug/l					
1,1,2,2-Tetrachloroethane		ND		ug/l					
1,2,3-Trichloropropane		ND		ug/l					
n-Propylbenzene		ND		ug/l					
2-Chlorotoluene		ND		ug/l					
4-Chlorotoluene		ND		ug/l					
1,3,5-Trimethylbenzene		ND		ug/l					
tert-Butylbenzene		ND		ug/l					
1,2,4-Trimethylbenzene		ND		ug/l					
sec-Butylbenzene		ND		ug/l					
m-Dichlorobenzene		ND		ug/l					
p-Isopropyltoluene		ND		ug/l					
p-Dichlorobenzene		ND		ug/l					
o-Dichlorobenzene		ND		ug/l					
n-Butylbenzene		ND		ug/l					
1,2,4-Trichlorobenzene		ND		ug/l					
Hexachlorobutadiene		ND		ug/l					
Naphthalene		ND		ug/l					
1,2,3-Trichlorobenzene		ND		ug/l					
Surrogate: 1,2-Dichlorobenzene-d4			*1.94*	ug/l	*2.00*	*97.0*	*75-121*		
Surrogate: 4-Bromofluorobenzene			*2.24*	ug/l	*2.00*	*112*	*78-116*		
LCS (W301226-BS1)					Prepared & Analyzed: 02-Jan-03				
1,2-Dibromo-3-chloropropane		11.6		ug/l	10.0	116	70-130		
1,2-Dibromoethane (EDB)		10.3		ug/l	10.0	103	70-130		
Dichlorodifluoromethane		10.0		ug/l	10.0	100	70-130		
Chloromethane		7.74		ug/l	10.0	77.4	70-130		
Vinyl chloride		8.97		ug/l	10.0	89.7	70-130		
Bromomethane		11.7		ug/l	10.0	117	70-130		
Chloroethane		11.0		ug/l	10.0	110	70-130		
Trichlorofluoromethane		12.9		ug/l	10.0	129	70-130		
Freon 113		ND		ug/l	10.0	95.2	70-130		
1,1-Dichloroethene		10.9		ug/l	10.0	109	70-130		
Methylene chloride		10.9		ug/l	10.0	109	70-130		
trans-1,2-Dichloroethene		9.63		ug/l	10.0	96.3	70-130		
Methyl tert-butyl ether		9.87		ug/l	10.0	98.7	70-130		
1,1-Dichloroethane		9.23		ug/l	10.0	92.3	70-130		
Di-isopropyl ether		9.76		ug/l	10.0	97.6	70-130		
Ethyl tert-butyl ether		11.7		ug/l	10.0	117	70-130		
2-Butanone		8.62		ug/l	10.0	86.2	70-130		

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Quality Control Report

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Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301226 - EPA 524 P&T									
LCS (W301226-BS1)					Prepared & Analyzed: 02-Jan-03				
2,2-Dichloropropane		12.3		ug/l	10.0	123	70-130		
cis-1,2-Dichloroethene		8.78		ug/l	10.0	87.8	70-130		
Bromochloromethane		9.57		ug/l	10.0	95.7	70-130		
Chloroform		10.0		ug/l	10.0	100	70-130		
1,1,1-Trichloroethane		12.0		ug/l	10.0	120	70-130		
Carbon tetrachloride		10.6		ug/l	10.0	106	70-130		
1,1-Dichloropropene		9.17		ug/l	10.0	91.7	70-130		
Benzene		7.64		ug/l	10.0	76.4	70-130		
1,2-Dichloroethane		11.6		ug/l	10.0	116	70-130		
Tert-amyl methyl ether		9.23		ug/l	10.0	92.3	70-130		
Trichloroethene		8.98		ug/l	10.0	89.8	70-130		
1,2-Dichloropropane		8.05		ug/l	10.0	80.5	70-130		
Dibromomethane		9.99		ug/l	10.0	99.9	70-130		
Bromodichloromethane		10.9		ug/l	10.0	109	70-130		
cis-1,3-Dichloropropene		9.66		ug/l	10.0	96.6	70-130		
4-Methyl-2-pentanone		9.20		ug/l	10.0	92.0	70-130		
2-Chloroethylvinyl ether		12.1		ug/l	10.0	121	70-130		
Toluene		8.76		ug/l	10.0	87.6	70-130		
trans-1,3-Dichloropropene		11.0		ug/l	10.0	110	70-130		
1,1,2-Trichloroethane		8.77		ug/l	10.0	87.7	70-130		
Tetrachloroethene		10.3		ug/l	10.0	103	70-130		
1,3-Dichloropropane		9.26		ug/l	10.0	92.6	70-130		
Dibromochloromethane		11.1		ug/l	10.0	111	70-130		
2-Hexanone		9.23		ug/l	10.0	92.3	70-130		
Chlorobenzene		9.62		ug/l	10.0	96.2	70-130		
1,1,1,2-Tetrachloroethane		10.0		ug/l	10.0	100	70-130		
Ethylbenzene		10.3		ug/l	10.0	103	70-130		
m,p-Xylene		10.0		ug/l	10.0	100	70-130		
o-Xylene		9.45		ug/l	10.0	94.5	70-130		
Styrene		9.71		ug/l	10.0	97.1	70-130		
Bromoform		11.7		ug/l	10.0	117	70-130		
Isopropylbenzene		11.4		ug/l	10.0	114	70-130		
Bromobenzene		10.3		ug/l	10.0	103	70-130		
1,1,2,2-Tetrachloroethane		8.68		ug/l	10.0	86.8	70-130		
1,2,3-Trichloropropane		10.2		ug/l	10.0	102	70-130		
n-Propylbenzene		10.7		ug/l	10.0	107	70-130		
2-Chlorotoluene		10.7		ug/l	10.0	107	70-130		
4-Chlorotoluene		10.8		ug/l	10.0	108	70-130		
1,3,5-Trimethylbenzene		11.4		ug/l	10.0	114	70-130		
tert-Butylbenzene		11.6		ug/l	10.0	116	70-130		
1,2,4-Trimethylbenzene		11.0		ug/l	10.0	110	70-130		

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Quality Control Report

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Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301226 - EPA 524 P&T									
LCS (W301226-BS1)					Prepared & Analyzed: 02-Jan-03				
sec-Butylbenzene		10.4		ug/l	10.0	104	70-130		
p-Isopropyltoluene		11.1		ug/l	10.0	111	70-130		
n-Butylbenzene		10.8		ug/l	10.0	108	70-130		
1,2,4-Trichlorobenzene		11.3		ug/l	10.0	113	70-130		
Hexachlorobutadiene		12.8		ug/l	10.0	128	70-130		
Naphthalene		9.78		ug/l	10.0	97.8	70-130		
1,2,3-Trichlorobenzene		11.3		ug/l	10.0	113	70-130		
Surrogate: 1,2-Dichlorobenzene-d4		*2.29*		ug/l	*2.00*	*114*	*75-121*		
Surrogate: 4-Bromofluorobenzene		*2.24*		ug/l	*2.00*	*112*	*78-116*		

Weck Laboratories, Inc

Semivolatile Organic Compounds by EPA Method 525.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301105 - EPA 525.2									
Blank (W301105-BLK1)					Prepared: 06-Jan-03 Analyzed: 20-Jan-03				
Naphthalene		ND		ug/l					
Dimethyl phthalate		ND		ug/l					
Acenaphthylene		ND		ug/l					
Acenaphthene		ND		ug/l					
Diethyl phthalate		ND		ug/l					
Fluorene		ND		ug/l					
Bis(2-ethylhexyl)adipate		ND		ug/l					
Bis(2-ethylhexyl)phthalate		ND		ug/l					
Benzo (a) anthracene		ND		ug/l					
Chrysene		ND		ug/l					
Benzo (b) fluoranthene		ND		ug/l					
Benzo (k) fluoranthene		ND		ug/l					
Benzo (a) pyrene		ND		ug/l					
Indeno (1,2,3-cd) pyrene		ND		ug/l					
Dibenz (a,h) anthracene		ND		ug/l					
Benzo (g,h,i) perylene		ND		ug/l					
Phenanthrene		ND		ug/l					
Anthracene		ND		ug/l					
Di-n-butyl phthalate		0.730	B	ug/l					
Fluoranthene		ND		ug/l					
Pyrene		ND		ug/l					
Butyl benzyl phthalate		ND		ug/l					

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Quality Control Report

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Semivolatile Organic Compounds by EPA Method 525.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301105 - EPA 525.2									
Blank (W301105-BLK1)					Prepared: 06-Jan-03 Analyzed: 20-Jan-03				
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*4.36*		ug/l	*5.00*	*87.2*	*70-130*		
Surrogate: Perylene-d12		*4.69*		ug/l	*5.00*	*93.8*	*70-130*		
Surrogate: Triphenyl phosphate		*4.67*		ug/l	*5.00*	*93.4*	*70-130*		
LCS (W301105-BS1)					Prepared: 06-Jan-03 Analyzed: 20-Jan-03				
Naphthalene		4.13		ug/l	5.00	82.6	0-200		
Dimethyl phthalate		4.62		ug/l	5.00	92.4	70-130		
Acenaphthylene		3.83		ug/l	5.00	76.6	70-130		
Acenaphthene		4.65		ug/l	5.00	93.0	0-200		
Diethyl phthalate		4.94		ug/l	5.00	98.8	70-130		
Fluorene		4.59		ug/l	5.00	91.8	70-130		
Bis(2-ethylhexyl)adipate		ND		ug/l	5.00	97.4	70-130		
Bis(2-ethylhexyl)phthalate		4.90		ug/l	5.00	98.0	70-130		
Benzo (a) anthracene		4.53		ug/l	5.00	90.6	70-130		
Chrysene		4.63		ug/l	5.00	92.6	70-130		
Benzo (b) fluoranthene		4.92		ug/l	5.00	98.4	70-130		
Benzo (k) fluoranthene		4.58		ug/l	5.00	91.6	70-130		
Benzo (a) pyrene		4.01		ug/l	5.00	80.2	70-130		
Indeno (1,2,3-cd) pyrene		4.66		ug/l	5.00	93.2	70-130		
Dibenz (a,h) anthracene		4.65		ug/l	5.00	93.0	70-130		
Benzo (g,h,i) perylene		4.43		ug/l	5.00	88.6	70-130		
Phenanthrene		4.45		ug/l	5.00	89.0	70-130		
Anthracene		3.91		ug/l	5.00	78.2	70-130		
Di-n-butyl phthalate		5.76		ug/l	5.00	115	70-130		
Fluoranthene		4.64		ug/l	5.00	92.8	70-130		
Pyrene		4.53		ug/l	5.00	90.6	70-130		
Butyl benzyl phthalate		4.95		ug/l	5.00	99.0	70-130		
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*4.66*		ug/l	*5.00*	*93.2*	*70-130*		
Surrogate: Perylene-d12		*4.68*		ug/l	*5.00*	*93.6*	*70-130*		
Surrogate: Triphenyl phosphate		*5.10*		ug/l	*5.00*	*102*	*70-130*		
Matrix Spike (W301105-MS1)		**Source: 2122726-01**			Prepared: 06-Jan-03 Analyzed: 21-Jan-03				
Naphthalene	ND	3.93		ug/l	5.00	78.6	70-130		
Dimethyl phthalate	ND	4.43		ug/l	5.00	88.6	70-130		
Acenaphthylene	ND	4.57		ug/l	5.00	91.4	70-130		
Acenaphthene	ND	4.87		ug/l	5.00	97.4	70-130		
Diethyl phthalate	ND	5.26		ug/l	5.00	105	70-130		
Fluorene	ND	4.88		ug/l	5.00	97.6	70-130		
Bis(2-ethylhexyl)adipate	ND	5.06		ug/l	5.00	101	70-130		
Bis(2-ethylhexyl)phthalate	ND	5.59		ug/l	5.00	112	70-130		
Benzo (a) anthracene	ND	4.73		ug/l	5.00	94.6	70-130		

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Quality Control Report

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Semivolatile Organic Compounds by EPA Method 525.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301105 - EPA 525.2									
Matrix Spike (W301105-MS1)		**Source: 2122726-01**			Prepared: 06-Jan-03 Analyzed: 21-Jan-03				
Chrysene	ND	4.86		ug/l	5.00	97.2	70-130		
Benzo (b) fluoranthene	ND	5.03		ug/l	5.00	101	70-130		
Benzo (k) fluoranthene	ND	4.82		ug/l	5.00	96.4	70-130		
Benzo (a) pyrene	ND	4.46		ug/l	5.00	89.2	70-130		
Indeno (1,2,3-cd) pyrene	ND	4.70		ug/l	5.00	94.0	70-130		
Dibenz (a,h) anthracene	ND	4.74		ug/l	5.00	94.8	70-130		
Benzo (g,h,i) perylene	ND	4.40		ug/l	5.00	88.0	70-130		
Phenanthrene	ND	4.81		ug/l	5.00	96.2	70-130		
Anthracene	ND	3.78		ug/l	5.00	75.6	70-130		
Di-n-butyl phthalate	0.60	6.01		ug/l	5.00	108	70-130		
Fluoranthene	ND	4.93		ug/l	5.00	98.6	70-130		
Pyrene	ND	4.88		ug/l	5.00	97.6	70-130		
Butyl benzyl phthalate	ND	5.31		ug/l	5.00	106	70-130		
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*4.47*		ug/l	*5.00*	*89.4*	*70-130*		
Surrogate: Perylene-d12		*5.03*		ug/l	*5.00*	*101*	*70-130*		
Surrogate: Triphenyl phosphate		*4.95*		ug/l	*5.00*	*99.0*	*70-130*		
Matrix Spike Dup (W301105-MSD1)		**Source: 2122726-01**			Prepared: 06-Jan-03 Analyzed: 21-Jan-03				
Naphthalene	ND	3.96		ug/l	5.00	79.2	70-130	0.760	30
Dimethyl phthalate	ND	4.46		ug/l	5.00	89.2	70-130	0.675	30
Acenaphthylene	ND	4.55		ug/l	5.00	91.0	70-130	0.439	30
Acenaphthene	ND	4.84		ug/l	5.00	96.8	70-130	0.618	30
Diethyl phthalate	ND	5.26		ug/l	5.00	105	70-130	0.00	30
Fluorene	ND	4.83		ug/l	5.00	96.6	70-130	1.03	30
Bis(2-ethylhexyl)adipate	ND	5.19		ug/l	5.00	104	70-130	2.54	30
Bis(2-ethylhexyl)phthalate	ND	5.53		ug/l	5.00	111	70-130	1.08	30
Benzo (a) anthracene	ND	4.57		ug/l	5.00	91.4	70-130	3.44	30
Chrysene	ND	4.69		ug/l	5.00	93.8	70-130	3.56	30
Benzo (b) fluoranthene	ND	4.88		ug/l	5.00	97.6	70-130	3.03	30
Benzo (k) fluoranthene	ND	4.56		ug/l	5.00	91.2	70-130	5.54	30
Benzo (a) pyrene	ND	4.30		ug/l	5.00	86.0	70-130	3.65	30
Indeno (1,2,3-cd) pyrene	ND	4.27		ug/l	5.00	85.4	70-130	9.59	30
Dibenz (a,h) anthracene	ND	4.29		ug/l	5.00	85.8	70-130	9.97	30
Benzo (g,h,i) perylene	ND	4.07		ug/l	5.00	81.4	70-130	7.79	30
Phenanthrene	ND	4.98		ug/l	5.00	99.6	70-130	3.47	30
Anthracene	ND	3.90		ug/l	5.00	78.0	70-130	3.13	30
Di-n-butyl phthalate	0.60	6.18		ug/l	5.00	112	70-130	2.79	30
Fluoranthene	ND	5.09		ug/l	5.00	102	70-130	3.19	30
Pyrene	ND	4.94		ug/l	5.00	98.8	70-130	1.22	30
Butyl benzyl phthalate	ND	5.43		ug/l	5.00	109	70-130	2.23	30
Surrogate: 1,3-Dimethyl-2-nitrobenzene		*4.36*		ug/l	*5.00*	*87.2*	*70-130*		

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Quality Control Report

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Semivolatile Organic Compounds by EPA Method 525.2 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301105 - EPA 525.2									
Matrix Spike Dup (W301105-MSD1)		Source: 2122726-01			Prepared: 06-Jan-03 Analyzed: 21-Jan-03				
Surrogate: Perylene-d12		*4.84*		ug/l	*5.00*	*96.8*	*70-130*		
Surrogate: Triphenyl phosphate		*4.98*		ug/l	*5.00*	*99.6*	*70-130*		

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Carbamates in Water by EPA Method 531.1 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301405 - EPA 531.1- dir. inj.									
Blank (W301405-BLK1)					Prepared: 13-Jan-03 Analyzed: 16-Jan-03				
Aldicarb sulfoxide		ND		ug/l					
Aldicarb sulfone		ND		ug/l					
Oxamyl		ND		ug/l					
Methomyl		ND		ug/l					
3-Hydroxycarbofuran		ND		ug/l					
Aldicarb		ND		ug/l					
Propoxur		ND		ug/l					
Carbofuran		ND		ug/l					
Carbaryl		ND		ug/l					
Methiocarb		ND		ug/l					
LCS (W301405-BS1)					Prepared: 13-Jan-03 Analyzed: 16-Jan-03				
Aldicarb sulfoxide		9.51		ug/l	10.0	95.1	80-120		
Aldicarb sulfone		9.69		ug/l	10.0	96.9	80-120		
Oxamyl		10.6		ug/l	10.0	106	80-120		
Methomyl		12.6	Q-08	ug/l	10.0	126	80-120		
3-Hydroxycarbofuran		12.3	Q-08	ug/l	10.0	123	80-120		
Aldicarb		8.04		ug/l	10.0	80.4	80-120		
Propoxur		11.7		ug/l	10.0	117	80-120		
Carbofuran		11.1		ug/l	10.0	111	80-120		
Carbaryl		16.5	Q-08	ug/l	10.0	165	80-120		
Methiocarb		15.6	Q-08	ug/l	10.0	156	80-120		
Matrix Spike (W301405-MS1)		Source: 2122422-01			Prepared: 13-Jan-03 Analyzed: 16-Jan-03				
Aldicarb sulfoxide	ND	8.58		ug/l	10.0	85.8	65-135		
Aldicarb sulfone	ND	14.4	Q-08	ug/l	10.0	144	65-135		
Oxamyl	ND	10.3		ug/l	10.0	103	65-135		
Methomyl	ND	9.83		ug/l	10.0	98.3	65-135		
3-Hydroxycarbofuran	ND	11.7		ug/l	10.0	117	65-135		

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Quality Control Report

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Carbamates in Water by EPA Method 531.1 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301405 - EPA 531.1- dir. inj.									
Matrix Spike (W301405-MS1)		Source: 2122422-01			Prepared: 13-Jan-03 Analyzed: 16-Jan-03				
Aldicarb	1.8	10.7		ug/l	10.0	89.0	65-135		
Propoxur	ND	11.8		ug/l	10.0	118	65-135		
Carbofuran	ND	13.5		ug/l	10.0	135	65-135		
Carbaryl	ND	11.3		ug/l	10.0	113	65-135		
Methiocarb	ND	11.6		ug/l	10.0	116	65-135		
Matrix Spike Dup (W301405-MSD1)		Source: 2122422-01			Prepared: 13-Jan-03 Analyzed: 16-Jan-03				
Aldicarb sulfoxide	ND	10.2		ug/l	10.0	102	65-135	17.3	30
Aldicarb sulfone	ND	11.3		ug/l	10.0	113	65-135	24.1	30
Oxamyl	ND	10.2		ug/l	10.0	102	65-135	0.976	30
Methomyl	ND	11.5		ug/l	10.0	115	65-135	15.7	30
3-Hydroxycarbofuran	ND	10.1		ug/l	10.0	101	65-135	14.7	30
Aldicarb	1.8	10.8		ug/l	10.0	90.0	65-135	0.930	30
Propoxur	ND	11.2		ug/l	10.0	112	65-135	5.22	30
Carbofuran	ND	11.5		ug/l	10.0	115	65-135	16.0	30
Carbaryl	ND	11.0		ug/l	10.0	110	65-135	2.69	30
Methiocarb	ND	11.7		ug/l	10.0	117	65-135	0.858	30

Weck Laboratories, Inc

Explosive Compounds by EPA Method 8330 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301034 - 3510 - Sep. Funnel									
Blank (W301034-BLK1)					Prepared: 02-Jan-03 Analyzed: 13-Jan-03				
HMX		ND		ug/l					
RDX		ND		ug/l					
1,3,5-Trinitrobenzene		ND		ug/l					
1,3-Dinitrobenzene		ND		ug/l					
Tetryl		ND		ug/l					
Nitrobenzene		ND		ug/l					
2,4,6-Trinitrotoluene		ND		ug/l					
4-Amino-2,6-Dinitrotoluene		ND		ug/l					
2-Amino-4,6-Dinitrotoluene		ND		ug/l					
2,4-Dinitrotoluene		ND		ug/l					
2,6-Dinitrotoluene		ND		ug/l					
2-Nitrotoluene		ND		ug/l					
3-Nitrotoluene		ND		ug/l					
4-Nitrotoluene		ND		ug/l					

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Quality Control Report

Weck Laboratories, Inc

Explosive Compounds by EPA Method 8330 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301034 - 3510 - Sep. Funnel									
LCS (W301034-BS1)					Prepared: 02-Jan-03 Analyzed: 13-Jan-03				
HMX		8.05		ug/l	6.49	124	70-130		
RDX		8.44		ug/l	6.49	130	70-130		
1,3,5-Trinitrobenzene		8.98	Q-08	ug/l	6.49	138	70-130		
1,3-Dinitrobenzene		7.57		ug/l	6.49	117	70-130		
Tetryl		6.98		ug/l	6.49	108	70-130		
Nitrobenzene		4.61		ug/l	6.49	71.0	70-130		
2,4,6-Trinitrotoluene		5.71		ug/l	6.49	88.0	70-130		
4-Amino-2,6-Dinitrotoluene		8.57	Q-08	ug/l	6.49	132	70-130		
2-Amino-4,6-Dinitrotoluene		9.00	Q-08	ug/l	6.49	139	70-130		
2,4-Dinitrotoluene		7.87		ug/l	6.49	121	70-130		
2,6-Dinitrotoluene		9.27	Q-08	ug/l	6.49	143	70-130		
2-Nitrotoluene		6.98		ug/l	6.49	108	70-130		
3-Nitrotoluene		6.68		ug/l	6.49	103	70-130		
4-Nitrotoluene		7.06		ug/l	6.49	109	70-130		
LCS Dup (W301034-BSD1)					Prepared: 02-Jan-03 Analyzed: 14-Jan-03				
HMX		7.84		ug/l	6.49	121	70-130	2.64	200
RDX		8.40		ug/l	6.49	129	70-130	0.475	200
1,3,5-Trinitrobenzene		8.80	Q-08	ug/l	6.49	136	70-130	2.02	200
1,3-Dinitrobenzene		7.52		ug/l	6.49	116	70-130	0.663	200
Tetryl		4.66		ug/l	6.49	71.8	70-130	39.9	200
Nitrobenzene		6.96		ug/l	6.49	107	70-130	40.6	200
2,4,6-Trinitrotoluene		5.87		ug/l	6.49	90.4	70-130	2.76	200
4-Amino-2,6-Dinitrotoluene		8.34	Q-08	ug/l	6.49	129	70-130	2.72	200
2-Amino-4,6-Dinitrotoluene		9.11	Q-08	ug/l	6.49	140	70-130	1.21	200
2,4-Dinitrotoluene		7.91		ug/l	6.49	122	70-130	0.507	200
2,6-Dinitrotoluene		9.35	Q-08	ug/l	6.49	144	70-130	0.859	200
2-Nitrotoluene		6.99		ug/l	6.49	108	70-130	0.143	200
3-Nitrotoluene		6.85		ug/l	6.49	106	70-130	2.51	200
4-Nitrotoluene		7.44		ug/l	6.49	115	70-130	5.24	200

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301007 - 3510C									
Blank (W301007-BLK1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Pyridine		ND		ug/l					

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Quality Control Report

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301007 - 3510C									
Blank (W301007-BLK1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
N-Nitrosodimethylamine		ND		ug/l					
Phenol		ND		ug/l					
Aniline		ND		ug/l					
Bis(2-chloroethyl)ether		ND		ug/l					
2-Chlorophenol		ND		ug/l					
1,3-Dichlorobenzene		ND		ug/l					
1,4-Dichlorobenzene		ND		ug/l					
1,2-Dichlorobenzene		ND		ug/l					
2-Methylphenol		ND		ug/l					
Bis(2-chloroisopropyl)ether		ND		ug/l					
3 & 4-Methylphenol		ND		ug/l					
N-Nitrosodi-n-propylamine		ND		ug/l					
Hexachloroethane		ND		ug/l					
Nitrobenzene		ND		ug/l					
Isophorone		ND		ug/l					
2-Nitrophenol		ND		ug/l					
2,4-Dimethylphenol		ND		ug/l					
Bis(2-chloroethoxy)methane		ND		ug/l					
2,4-Dichlorophenol		ND		ug/l					
1,2,4-Trichlorobenzene		ND		ug/l					
Naphthalene		ND		ug/l					
4-Chloroaniline		ND		ug/l					
Benzoic acid		ND		ug/l					
Hexachlorobutadiene		ND		ug/l					
4-Chloro-3-methylphenol		ND		ug/l					
2-Methylnaphthalene		ND		ug/l					
Hexachlorocyclopentadiene		ND		ug/l					
2,4,6-Trichlorophenol		ND		ug/l					
2,4,5-Trichlorophenol		ND		ug/l					
2-Chloronaphthalene		ND		ug/l					
2-Nitroaniline		ND		ug/l					
Acenaphthylene		ND		ug/l					
Dimethyl phthalate		ND		ug/l					
2,6-Dinitrotoluene		ND		ug/l					
3-Nitroaniline		ND		ug/l					
Acenaphthene		ND		ug/l					
2,4-Dinitrophenol		ND		ug/l					
Dibenzofuran		ND		ug/l					
2,4-Dinitrotoluene		ND		ug/l					
4-Nitrophenol		ND		ug/l					
Fluorene		ND		ug/l					

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Quality Control Report

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301007 - 3510C									
Blank (W301007-BLK1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
4-Chlorophenyl phenyl ether		ND		ug/l					
Diethyl phthalate		ND		ug/l					
4-Nitroaniline		ND		ug/l					
Azobenzene		ND		ug/l					
1,2-Diphenylhydrazine		ND		ug/l					
N-Nitrosodiphenylamine		ND		ug/l					
4,6-Dinitro-2-methylphenol		ND		ug/l					
4-Bromophenyl phenyl ether		ND		ug/l					
Hexachlorobenzene		ND		ug/l					
Pentachlorophenol		ND		ug/l					
Phenanthrene		ND		ug/l					
Anthracene		ND		ug/l					
Carbazole		ND		ug/l					
Di-n-butyl phthalate		ND		ug/l					
Fluoranthene		ND		ug/l					
Benzidine		ND		ug/l					
Pyrene		ND		ug/l					
Butyl benzyl phthalate		ND		ug/l					
Benzo (a) anthracene		ND		ug/l					
Chrysene		ND		ug/l					
3,3'-Dichlorobenzidine		ND		ug/l					
Bis(2-ethylhexyl)phthalate		9.92		ug/l					
Di-n-octyl phthalate		ND		ug/l					
Benzo (b) fluoranthene		ND		ug/l					
Benzo (k) fluoranthene		ND		ug/l					
Benzo (a) pyrene		ND		ug/l					
Indeno (1,2,3-cd) pyrene		ND		ug/l					
Dibenz (a,h) anthracene		ND		ug/l					
Benzo (g,h,i) perylene		ND		ug/l					
Benzyl alcohol		ND		ug/l					
Surrogate: 2-Fluorophenol		*121*		ug/l	*200*	*60.5*	*23-80*		
Surrogate: Phenol-d5		*69.5*		ug/l	*200*	*34.8*	*20-61*		
Surrogate: Nitrobenzene-d5		*86.3*		ug/l	*100*	*86.3*	*52-121*		
Surrogate: 2-Fluorobiphenyl		*79.4*		ug/l	*100*	*79.4*	*42-95*		
Surrogate: 2,4,6-Tribromophenol		*152*		ug/l	*200*	*76.0*	*26-114*		
Surrogate: Terphenyl-dl4		*83.9*		ug/l	*100*	*83.9*	*45-116*		
LCS (W301007-BS1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Phenol		61.1		ug/l	200	30.6	12-63		
2-Chlorophenol		166		ug/l	200	83.0	28-101		
1,4-Dichlorobenzene		82.2		ug/l	100	82.2	35-84		

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301007 - 3510C									
LCS (W301007-BS1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
N-Nitrosodi-n-propylamine		83.7		ug/l	100	83.7	46-95		
1,2,4-Trichlorobenzene		75.4		ug/l	100	75.4	34-98		
4-Chloro-3-methylphenol		213		ug/l	200	106	20-125		
Acenaphthene		81.6		ug/l	100	81.6	35-91		
2,4-Dinitrotoluene		114		ug/l	100	114	43-121		
4-Nitrophenol		66.5		ug/l	200	33.2	8-89		
Pentachlorophenol		224		ug/l	200	112	15-128		
Pyrene		104		ug/l	100	104	24-117		
Surrogate: 2-Fluorophenol		*104*		ug/l	*200*	*52.0*	*23-80*		
Surrogate: Phenol-d5		*60.6*		ug/l	*200*	*30.3*	*20-61*		
Surrogate: Nitrobenzene-d5		*76.1*		ug/l	*100*	*76.1*	*52-121*		
Surrogate: 2-Fluorobiphenyl		*81.7*		ug/l	*100*	*81.7*	*42-95*		
Surrogate: 2,4,6-Tribromophenol		*164*		ug/l	*200*	*82.0*	*26-114*		
Surrogate: Terphenyl-dl4		*91.6*		ug/l	*100*	*91.6*	*45-116*		
LCS Dup (W301007-BSD1)					Prepared: 02-Jan-03 Analyzed: 10-Jan-03				
Phenol		58.8		ug/l	200	29.4	12-63	3.84	30
2-Chlorophenol		163		ug/l	200	81.5	28-101	1.82	30
1,4-Dichlorobenzene		80.5		ug/l	100	80.5	35-84	2.09	30
N-Nitrosodi-n-propylamine		81.0		ug/l	100	81.0	46-95	3.28	30
1,2,4-Trichlorobenzene		73.9		ug/l	100	73.9	34-98	2.01	30
4-Chloro-3-methylphenol		209		ug/l	200	104	20-125	1.90	30
Acenaphthene		82.0		ug/l	100	82.0	35-91	0.489	30
2,4-Dinitrotoluene		113		ug/l	100	113	43-121	0.881	30
4-Nitrophenol		63.7		ug/l	200	31.8	8-89	4.30	30
Pentachlorophenol		208		ug/l	200	104	15-128	7.41	30
Pyrene		104		ug/l	100	104	24-117	0.00	30
Surrogate: 2-Fluorophenol		*101*		ug/l	*200*	*50.5*	*23-80*		
Surrogate: Phenol-d5		*58.6*		ug/l	*200*	*29.3*	*20-61*		
Surrogate: Nitrobenzene-d5		*75.6*		ug/l	*100*	*75.6*	*52-121*		
Surrogate: 2-Fluorobiphenyl		*81.6*		ug/l	*100*	*81.6*	*42-95*		
Surrogate: 2,4,6-Tribromophenol		*159*		ug/l	*200*	*79.5*	*26-114*		
Surrogate: Terphenyl-dl4		*89.9*		ug/l	*100*	*89.9*	*45-116*		

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Semivolatile Organic Compounds (Special Analytes) by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301108 - 3510C									

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Semivolatile Organic Compounds (Special Analytes) by EPA Method 8270C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301108 - 3510C									
Blank (W301108-BLK1)					Prepared: 06-Jan-03 Analyzed: 11-Jan-03				
1,4-Dioxane		ND		ug/l					
LCS (W301108-BS1)					Prepared: 06-Jan-03 Analyzed: 11-Jan-03				
1,4-Dioxane		7.12		ug/l	10.0	71.2	70-130		
LCS Dup (W301108-BSD1)					Prepared: 06-Jan-03 Analyzed: 11-Jan-03				
1,4-Dioxane		7.74		ug/l	10.0	77.4	70-130	8.34	30

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212789 - General Preparation									
Duplicate (W212789-DUP1)		Source: 2122723-15			Prepared & Analyzed: 27-Dec-02				
pH	7.25	7.30		pH Units				0.687	10
Reference (W212789-SRM1)					Prepared & Analyzed: 27-Dec-02				
pH		6.88		pH Units	6.86	100	95-105		
Batch W212791 - General Preparation									
LCS (W212791-BS1)					Prepared & Analyzed: 27-Dec-02				
Color		10.0		Units	10.0	100	95-105		
Duplicate (W212791-DUP1)		Source: 2122724-01			Prepared & Analyzed: 27-Dec-02				
Color	0.0	ND		Units					10
Color-pH, Units	7.0	7.00		Units				0.00	200
Batch W212793 - General Preparation									
Duplicate (W212793-DUP1)		Source: 2122724-01			Prepared & Analyzed: 27-Dec-02				
Threshold Odor Number	1.0	1.0		T.O.N.				0.00	20
Batch W212794 - General Preparation									
Blank (W212794-BLK1)					Prepared & Analyzed: 27-Dec-02				
Turbidity		ND		NTU					

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212794 - General Preparation									
LCS (W212794-BS1)					Prepared & Analyzed: 27-Dec-02				
Turbidity		1.65		NTU	1.54	107	90-110		
Duplicate (W212794-DUP1)			Source: 2122724-02		Prepared & Analyzed: 27-Dec-02				
Turbidity	0.060	ND		NTU				0.00	20
Batch W301002 - General Preparation									
Blank (W301002-BLK1)					Prepared & Analyzed: 02-Jan-03				
Total Alkalinity as CaCO3		ND		mg/l					
Carbonate Alkalinity as CaCO3		ND		mg/l					
Bicarbonate Alkalinity as HCO3		ND		mg/l					
Hydroxide Alkalinity as CaCO3		ND		mg/l					
LCS (W301002-BS1)					Prepared & Analyzed: 02-Jan-03				
Total Alkalinity as CaCO3		29.1		mg/l	28.3	103	90-110		
Bicarbonate Alkalinity as HCO3		35.6		mg/l	34.7	103	90-110		
Duplicate (W301002-DUP1)			Source: 2122423-01		Prepared & Analyzed: 02-Jan-03				
Total Alkalinity as CaCO3	96	97.0		mg/l				1.04	20
Carbonate Alkalinity as CaCO3	0.0	ND		mg/l					200
Bicarbonate Alkalinity as HCO3	120	118		mg/l				1.68	20
Hydroxide Alkalinity as CaCO3	0.0	ND		mg/l					200
Batch W301051 - General Preparation									
Blank (W301051-BLK1)					Prepared: 03-Jan-03 Analyzed: 07-Jan-03				
Total Dissolved Solids		ND		mg/l					
LCS (W301051-BS1)					Prepared: 03-Jan-03 Analyzed: 07-Jan-03				
Total Dissolved Solids		800		mg/l	824	97.1	93-105		
Duplicate (W301051-DUP1)			Source: 3010217-01		Prepared: 03-Jan-03 Analyzed: 07-Jan-03				
Total Dissolved Solids	270	ND		mg/l					15
Batch W301136 - General Preparation									
Blank (W301136-BLK1)					Prepared & Analyzed: 07-Jan-03				
Specific Conductance (EC)		ND		umhos/cm					
LCS (W301136-BS1)					Prepared & Analyzed: 07-Jan-03				

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301136 - General Preparation									
LCS (W301136-BS1)					Prepared & Analyzed: 07-Jan-03				
Specific Conductance (EC)		496		umhos/cm	500	99.2	96-102		
Duplicate (W301136-DUP1)		Source: 2122724-02			Prepared & Analyzed: 07-Jan-03				
Specific Conductance (EC)	610	607		umhos/cm				0.493	10
Batch W301241 - General Preparation									
Blank (W301241-BLK1)					Prepared: 10-Jan-03 Analyzed: 13-Jan-03				
Total Cyanide		ND		mg/l					
LCS (W301241-BS1)					Prepared: 10-Jan-03 Analyzed: 13-Jan-03				
Total Cyanide		0.175		mg/l	0.200	87.5	78-123		
Matrix Spike (W301241-MS1)		Source: 2122724-01			Prepared: 10-Jan-03 Analyzed: 13-Jan-03				
Total Cyanide	ND	0.197		mg/l	0.200	98.5	78-123		
Matrix Spike Dup (W301241-MSD1)		Source: 2122724-01			Prepared: 10-Jan-03 Analyzed: 13-Jan-03				
Total Cyanide	ND	0.194		mg/l	0.200	97.0	78-123	1.53	20

Weck Laboratories, Inc

Anions by EPA Method 300.0 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212770 - General Preparation									
Blank (W212770-BLK1)					Prepared & Analyzed: 27-Dec-02				
Total Fluoride		ND		mg/l					
Chloride		ND		mg/l					
Nitrate as NO3		ND		mg/l					
Sulfate as SO4		ND		mg/l					
Nitrite as N		ND		mg/l					
NO2+NO3 as N		ND		mg/l					
LCS (W212770-BS1)					Prepared & Analyzed: 27-Dec-02				
Total Fluoride		1.07		mg/l	1.00	107	90-110		
Chloride		2.02		mg/l	2.00	101	90-110		
Nitrate as NO3		4.95		mg/l	5.00	99.0	90-110		
Sulfate as SO4		9.78		mg/l	10.0	97.8	90-110		
Nitrite as N		0.620		mg/l	0.609	102	90-110		

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Anions by EPA Method 300.0 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212770 - General Preparation									
LCS (W212770-BS1)					Prepared & Analyzed: 27-Dec-02				
NO2+NO3 as N		1.74		mg/l	1.74	100	90-110		
Matrix Spike (W212770-MS1)			Source: 2122724-02		Prepared & Analyzed: 27-Dec-02				
Total Fluoride	0.40	10.6		mg/l	10.0	102	80-120		
Chloride	150	159	QM-02	mg/l	20.0	45.0	80-120		
Nitrate as NO3	0.27	52.2		mg/l	50.0	104	80-120		
Sulfate as SO4	ND	97.4		mg/l	100	97.4	80-120		
Nitrite as N	ND	5.92		mg/l	6.09	97.2	80-120		
NO2+NO3 as N	0.061	17.7		mg/l	17.4	101	80-120		
Matrix Spike (W212770-MS2)			Source: 2122723-06		Prepared & Analyzed: 27-Dec-02				
Total Fluoride	1.2	10.9		mg/l	10.0	97.0	80-120		
Chloride	190	200	QM-02	mg/l	20.0	50.0	80-120		
Nitrate as NO3	2.2	50.9		mg/l	50.0	97.4	80-120		
Sulfate as SO4	150	250		mg/l	100	100	80-120		
Nitrite as N	ND	6.49		mg/l	6.09	107	80-120		
NO2+NO3 as N	0.49	18.0		mg/l	17.4	101	80-120		
Matrix Spike Dup (W212770-MSD1)			Source: 2122724-02		Prepared & Analyzed: 27-Dec-02				
Total Fluoride	0.40	10.5		mg/l	10.0	101	80-120	0.948	20
Chloride	150	159	QM-02	mg/l	20.0	45.0	80-120	0.00	20
Nitrate as NO3	0.27	52.7		mg/l	50.0	105	80-120	0.953	20
Sulfate as SO4	ND	97.7		mg/l	100	97.7	80-120	0.308	20
Nitrite as N	ND	5.93		mg/l	6.09	97.4	80-120	0.169	20
NO2+NO3 as N	0.061	17.8		mg/l	17.4	102	80-120	0.563	20
Matrix Spike Dup (W212770-MSD2)			Source: 2122723-06		Prepared & Analyzed: 27-Dec-02				
Total Fluoride	1.2	10.6		mg/l	10.0	94.0	80-120	2.79	20
Chloride	190	199	QM-02	mg/l	20.0	45.0	80-120	0.501	20
Nitrate as NO3	2.2	49.5		mg/l	50.0	94.6	80-120	2.79	20
Sulfate as SO4	150	245		mg/l	100	95.0	80-120	2.02	20
Nitrite as N	ND	6.64		mg/l	6.09	109	80-120	2.28	20
NO2+NO3 as N	0.49	17.8		mg/l	17.4	99.5	80-120	1.12	20
Batch W301158 - General Preparation									
Blank (W301158-BLK1)					Prepared & Analyzed: 28-Dec-02				
Total Fluoride		ND		mg/l					
Chloride		ND		mg/l					
Nitrate as NO3		ND		mg/l					

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Anions by EPA Method 300.0 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W301158 - General Preparation									
Blank (W301158-BLK1)					Prepared & Analyzed: 28-Dec-02				
Sulfate as SO4		ND		mg/l					
Nitrite as N		ND		mg/l					
NO2+NO3 as N		ND		mg/l					
LCS (W301158-BS1)					Prepared & Analyzed: 28-Dec-02				
Total Fluoride		1.02		mg/l	1.00	102	90-110		
Chloride		2.05		mg/l	2.00	102	90-110		
Nitrate as NO3		4.92		mg/l	5.00	98.4	90-110		
Sulfate as SO4		9.96		mg/l	10.0	99.6	90-110		
Nitrite as N		0.630		mg/l	0.609	103	90-110		
NO2+NO3 as N		1.74		mg/l	1.74	100	90-110		
Matrix Spike (W301158-MS1)		Source: 2122724-01			Prepared & Analyzed: 28-Dec-02				
Total Fluoride	0.49	10.8		mg/l	10.0	103	80-120		
Chloride	16	36.3		mg/l	20.0	102	80-120		
Nitrate as NO3	27	76.0		mg/l	50.0	98.0	80-120		
Sulfate as SO4	32	129		mg/l	100	97.0	80-120		
Nitrite as N	ND	6.27		mg/l	6.09	103	80-120		
NO2+NO3 as N	6.1	23.4		mg/l	17.4	99.4	80-120		
Matrix Spike Dup (W301158-MSD1)		Source: 2122724-01			Prepared & Analyzed: 28-Dec-02				
Total Fluoride	0.49	10.8		mg/l	10.0	103	80-120	0.00	20
Chloride	16	36.2		mg/l	20.0	101	80-120	0.276	20
Nitrate as NO3	27	76.6		mg/l	50.0	99.2	80-120	0.786	20
Sulfate as SO4	32	130		mg/l	100	98.0	80-120	0.772	20
Nitrite as N	ND	6.31		mg/l	6.09	104	80-120	0.636	20
NO2+NO3 as N	6.1	23.6		mg/l	17.4	101	80-120	0.851	20

Weck Laboratories, Inc

Methylene Blue Active Substances by SM 5540C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212768 - General Preparation									
Blank (W212768-BLK1)					Prepared & Analyzed: 27-Dec-02				
Methylene Blue Active Substances..		ND		mg/l					
LCS (W212768-BS1)					Prepared & Analyzed: 27-Dec-02				
Methylene Blue Active Substances..		0.202		mg/l	0.200	101	80-120		

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Methylene Blue Active Substances by SM 5540C - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W212768 - General Preparation									
Matrix Spike (W212768-MS1)		**Source: 2122724-02**			Prepared & Analyzed: 27-Dec-02				
Methylene Blue Active Substances.	ND	0.201		mg/l	0.200	100	80-120		
Matrix Spike Dup (W212768-MSD1)		**Source: 2122724-02**			Prepared & Analyzed: 27-Dec-02				
Methylene Blue Active Substances.	ND	0.202		mg/l	0.200	101	80-120	0.496	20

EPA 524.2 Tentatively Identified Compounds: None detected. The analysis shows a big chromatographic peak of sulfur dioxide, which attributed to decomposition of the preservative used.

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND=Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.

Flags for Data Qualifiers:
B = Analyte is found in the associated blank as well as in the sample (CLP B-flag).
Q-08 = This analyte bias high in QC sample, but not found in samples.
QM-02 = The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QR-02 = The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
S-GC = Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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FRONTIER
ANALYTICAL LABORATORY

January 20, 2003

FAL Project ID: 1484

Ms. Jayna Kostura
Weck Laboratories, Inc.
14859 East Clark Avenue
Industry, CA 91745

Dear Ms. Kostura,

Enclosed are the results for Frontier Analytical Laboratory project **1484**. This corresponds to your project # 2122724. The one aqueous sample received on 1/3/03 was extracted and analyzed by EPA Method 1613 for 2,3,7,8-TCDD only. When the sample was received, it was tested for residual chlorine, per EPA Method 1613. The test indicated a free chlorine concentration of 2ppm. The sample was treated with sodium thiosulfate, per EPA Method 1613, and analysis continued. A turnaround time of 21 days was requested for this work. The turnaround time provided for project **1484** was sixteen days.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains the project-sample tracking log, qualifier reference guide, ML/MDL form, the analytical results, and the California State form. The Sample Receipt section contains the chain of custody, sample login form and sample photo.

If you have any questions regarding project **1484**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
dioxin@frontieranalytical.com

Analytical Data

Frontier Analytical Laboratory

Project-Sample Tracking Log

FAL Project ID: 1484

Received on: 1/3/03 **Project Due:** 01/27/03 **Storage:** R-1

FAL Sample ID	Client Project ID	Client Sample ID	Requested Method/s	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
1484-01-SA	2122724	2122724-02	1613	Aqueous	12/27/02	12:55 PM	12/27/03

FRONTIER ANALYTICAL LABORATORY

Qualifier Reference Guide

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J‡	Analyte concentration is below calibration range
M	Maximum possible concentration
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection
-	Analyte Not Detected

‡ "J" values are equivalent to DNQ (detected but not qualified) for California Toxics Rule (CTR)/National Pollutant Discharge Elimination System (NPDES) samples

EPA Method 1613/8290 Aqueous MDL
(SPE Extraction)

FRONTIER ANALYTICAL LABORATORY

Analyte	ML	MDL
2,3,7,8-TCDD	5.00	1.36

Project **1475**, Extracted 1/6/03; analyzed 1/14/03. Based on 1.00 L sample, pg/L.

EPA Method 1613
TCDD

FRONTIER ANALYTICAL LABORATORY

FAL ID: 1484-01-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No.: 1484

Date Extracted: 1/16/03
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL2-1-8
GC Column: DB5
Units: pg/L

Acquired: 17-JAN-03
NATO 1989 TEQ: NA
WHO 1998 TEQ: NA

Compound	Conc	DL	Qual
2,3,7,8-TCDD	-	1.98	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	75.4	31.0 - 137	

Cleanup Surrogate	% Rec	QC Limits	Qual
37Cl-2,3,7,8-TCDD	75.1	42.0 - 164	

Analyst: JC
Date: 1/20/03

Reviewed by: [illegible]
Date: 1/20/03

EPA Method 1613
TCDD

FRONTIER ANALYTICAL LABORATORY

FAL ID: 1484-01-OPR
Client ID: OPR
Matrix: Aqueous
Batch No.: 1484

Date Extracted: 1/16/03
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL2-1-8
GC Column: DB5
Units: ng/mL

Acquired: 17-JAN-03
NATO 1989 TEQ: NA
WHO 1998 TEQ: NA

Compound	Conc	QC Limits
2,3,7,8-TCDD	8.54	7.30 - 14.6

Internal Standards	% Rec	QC Limits
13C-2,3,7,8-TCDD	81.2	25.0 - 141

Cleanup Surrogate	% Rec	QC Limits
37Cl-2,3,7,8-TCDD	91.0	37.0 - 158

Analyst: [signature]
Date: 1/20/03

Reviewed by: [signature]
Date: 1/20/03

EPA Method 1613
TCDD

FRONTIER ANALYTICAL LABORATORY

FAL ID: 1484-01-SA
Client ID: 2122724-02
Matrix: Aqueous
Batch No.: 1484

Date Extracted: 1/16/03
Date Received: 1/3/03
Amount: 0.939 L

ICal: PCDDFAL2-1-8
GC Column: DB5
Units: pg/L

Acquired: 17-JAN-03
NATO 1989 TEQ: NA
WHO 1998 TEQ: NA

Compound	Conc	DL	Qual
2,3,7,8-TCDD	-	1.57	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	102	31.0 - 137	

Cleanup Surrogate	% Rec	QC Limits	Qual
37Cl-2,3,7,8-TCDD	106	42.0 - 164	

Analyst: TZ
Date: 1/20/03

Reviewed by: [illegible]
Date: 1/20/03

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA
ORGANIC CHEMICAL ANALYSIS (9/99)

ED

Date of Report: 03/01/20 Sample ID No.2122724-02
Laboratory Signature Lab
Name: FRONTIER ANALYTICAL LABORATORY Director:
Name of Sampler:Unknown Employed By: Unknown
Date/Time Sample Collected:02/12/07/1255 Date/Time Sample Received @ Lab:03/01/03/1000 Date Analyses Completed:03/01/1

System Name:LA PUENTE VALLEY CWD System Number: 1910060
Name or Number of Sample Source:SP-6, TREATMENT PLANT FINAL EFFLUENT

User ID: 4TH Station Number: 1910060-013
Date/Time of Sample: |02|12|07|1255| Laboratory Code: 2493
YY MM DD TTTT YY MM DD
Date Analysis completed: |03|01|17|
Submitted by: Tom Crabtree Phone #: 916-934-0900

Page 1 of 1 REGULATED ORGANIC CHEMICALS

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
1613	2,3,7,8-TCDD (Dioxin)	34676	ND	3E-5	5E-6

Sample Receipt

1484/1°C

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

SUBCONTRACT ORDER

Subcontract Laboratory:
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Phone :(916) 934-0900
Fax: (916) 934-0999

Turn Around Time: Normal
Project Manager: Jayna Kostura
Name of Sampler:
Sampler Employed by:

Sample ID: 2122724-02 **Sample ID:** SP-6 **Matrix:** Water **Date Sampled:** 27-Dec-02 **Time Sampled:** 12:55
Sample comment: La Puente Valley County Water Dist.

Analysis	Due	Expires	Comments
dioxin 2378TCDD 1613	13-Jan-03 12:00	10-Jan-03 12:55	
Containers Supplied:			
1L Dioxin 2X (AD)			

Remarks / Special Comments:

Sample Condition:
Temperature: 1°C
Preserved: Yes / No
Evidence Seal Intact: Yes / No N/A
Container Attacked: Yes / No
Preserved at Lab: Yes / No DN 1/3/03

Relinquished By	Date / Time:	Received By	Date / Time:
[signature]	1/2/03	Dan Vickers (Frontier Analytical Laboratory)	1/3/2003 10:00AM

Relinquished by	Date / Time:	Received By	Date / Time:

Frontier Analytical Laboratory

Sample Login Form

Project ID: 1484

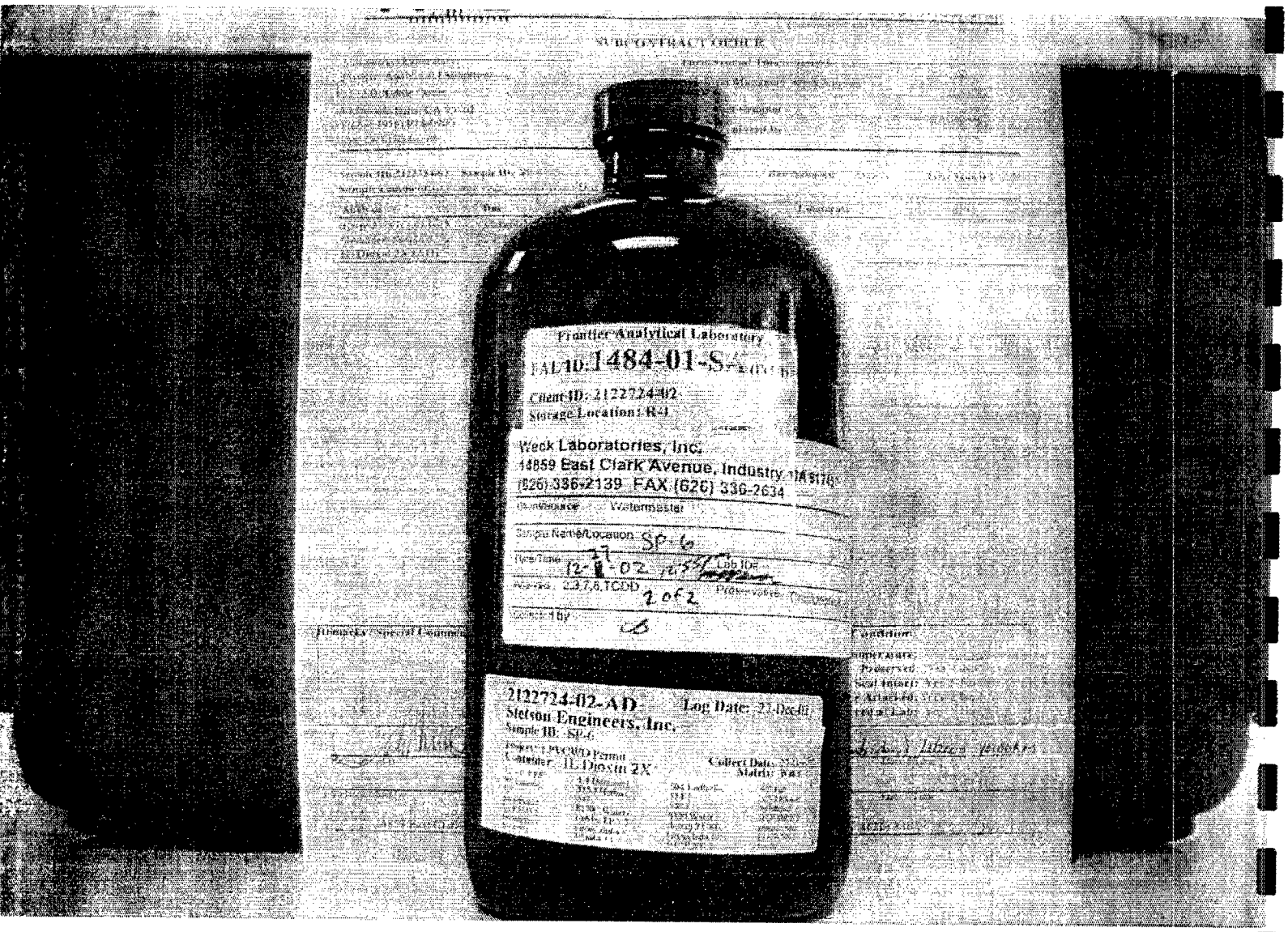
Client:	Weck Laboratories, Inc.
Client Project ID:	2122724
Date Received:	01/03/03 TAT: 21
Time Received:	10:00 AM
Received By:	DPV
# of Samples Received:	1 # of Dups: 0
Storage Location:	R-1

Checklist	Yes	No	N/A	Comments
Method of Delivery:	X			Fed-Ex/UPS/Courier/Other
Tracking Number:	X			832457735034
Shipping container received intact?	X			
Custody seals(s) present and intact?			X	
Method of cooling:	X			Ice/Blue ice/Dry ice/Other
Sample arrival temperature (C):	X			1 degree celsius
Sample containers intact?	X			
Chain of Custody present and complete?	X			
Return shipping container to client?	X			
Test for residual chlorine?	X			Thiosulfate added? Yes
Earliest sample hold time expiration:	X			Date: 12/27/03
Adequate Sample Volume?	X			

Anomalies or additional comments:

Sample tested positive at 2ppm for presence of free chlorine.
Sample was treated with 80mg of sodium thoisulfate and re-tested.
Re-test showed no free chlorine present after treatment.DPV 1/3/2003

FRONTIER
ANALYTICAL LABORATORY



APPENDIX C

1999 Capital Cost Estimate for La Puente Valley County Water District Project (from EPA Explanation of Significant Differences, May 1999)		
ITEM		**COST (millions of dollars)**
EXTRACTION WELLS		-
TREATMENT PLANT		
	UV/OX	0.50
	Ion Exchange	1.90
	Carbon Adsorption	0.20
	Interconnecting Piping and Wiring, Process Controls	0.31
	Sitework	1.30
RAW AND TREATED WATER PIPELINES		-
	Brine Pipeline	0.16
OTHER		
	permits	0.05
	bid contingency (15%)	0.67
	scope contingency (20%)	0.90
	services during construction (6%)	0.36
	engineering (8%)	0.48
	legal and administrative cost (7%)	0.42
TOTAL		**7.3**

La Puente Valley County Water District
Treatment Facility

Summary of Actual Construction Costs

ISEP (Ion Exchange)	
ISEP Equipment	$1,714,402
Tax	$141,025
Freight	$55,500
ISEP Construction (Incl Assembly, Structure, Piping Controls)	$644,828
Construction Change Orders	$77,802
Equipment Supplier Ch. Orders	($48,106)
ISEP Total	**$2,585,451**
Rayox (UV/OX)	
Rayox Equipment	$960,000
Peroxide Equipment	$60,222
Tax	$83,756
Freight	$11,100
Rayox Construction (Incl Assembly, Structure, Piping Controls)	$353,950
Construction Change Orders	$57,921
Equipment Supplier Ch. Orders	($20,617)
Rayox Total	**$1,506,332**
Sanitation District Connection Fee	**$128,334**
Engineering & Test Support	**$721,582**
Startup, Testing, & Permitting	**$631,604**
Subtotal Treatment Plant	**$5,573,303**
Low Pressure UV Demonstration Project	**$1,873,933**
SWS Interconnection Project	**$102,415**
Total - Capital Cost	**$7,549,652**

1999 Annual Operation and Maintenance Estimate for La Puente Valley County Water District Project (from EPA Explanation of Significant Differences, May 1999)				
ITEM		**EST. QUANTITY**	**UNIT COST**	**COST (millions of dollars per year)**
Electrical Power				
	WELLS	804,500 kwhr	$0.10 / kwhr	0.08
	Treatment System	2,689,000 kwhr	$0.10 / kwhr	0.27
Treatment System Operation				
	Carbon Replacement	40,000 lb	$0.70 / lb	0.03
	Hydrogen Peroxide	67,000 lb	$0.49 / lb	0.03
	Salt	4,416,500 lb	$0.04 / lb	0.18
	Brine Disposal			0.05
	Water Sample Analysis	60 analyses	$455/ analyses	0.03
	Operator Labor	6,760 hours	$45/hr	0.30
	Manager Labor	520 hours	$60/hr	0.03
Maintenance (2% of capital cost estimate)				0.21
TOTAL				**1.2 ($466/acre-foot)**

Baldwin Park Operable Unit: La Puente Valley County Water District
SUMMARY WORKSHEET

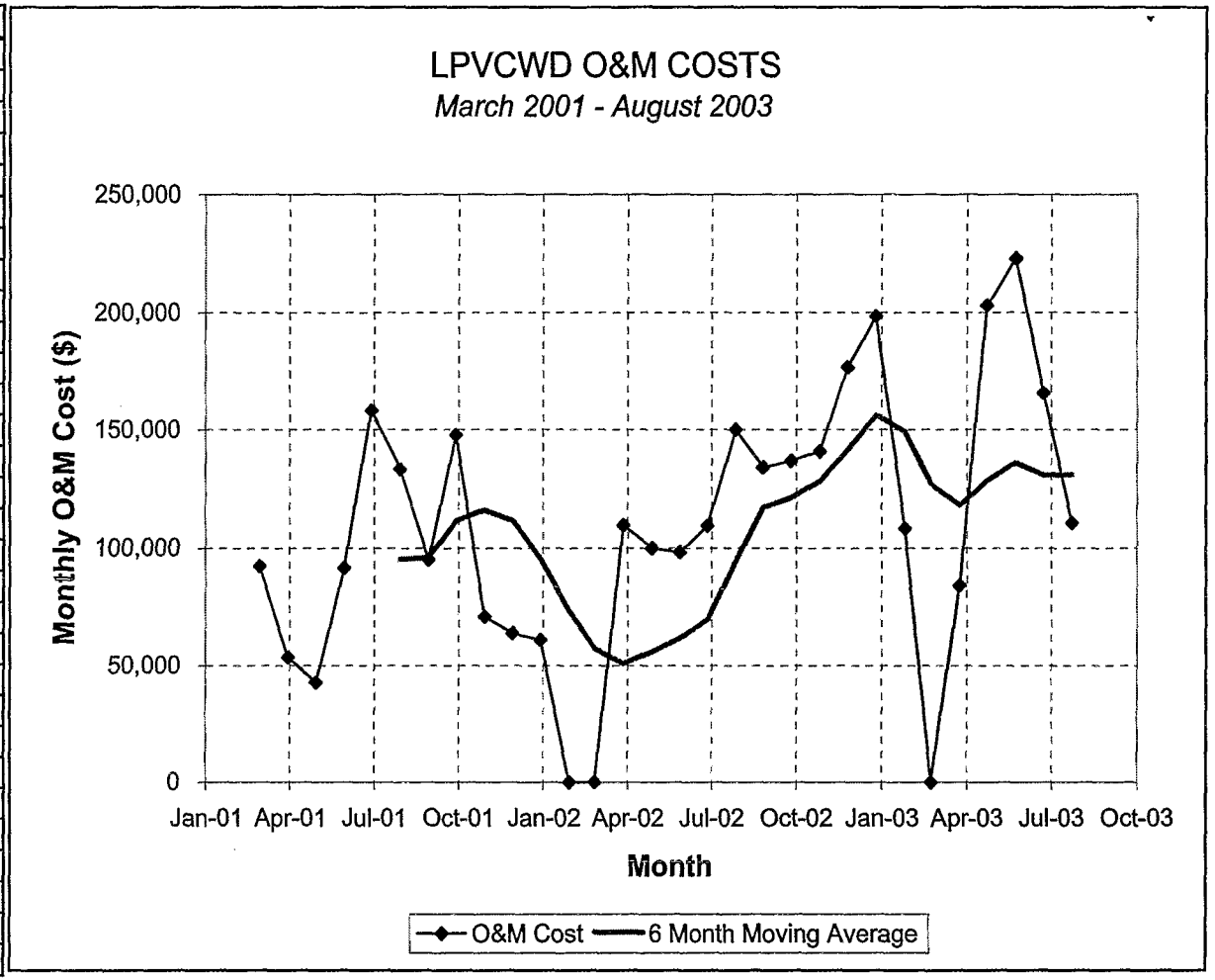
DRAFT

Line Item	Description	BPOU Agreement Exhibit L: Annual O&M Budget for 2002	Actual O&M Costs for 2002(a)	Notes	Cost Analysis for AF or Annual Equivalent: Average Cost/unit	Cost Analysis for AF or Annual Equivalent: Unit	Remarks	2003 Projected Costs Based on 2,250 AF	2002 Unit Costs Detail Breakdown: 2002 Quantities Used	Units	Unit Cost	/Unit
LP 2.1.01	Power	$ 85,000	$ 329,712	b	$ 134.10	$/AF	Cost of Treatment System after pumping deducted	$ 486,695	3,183,913	kwh/yr	$ 0.1355	/kwh
	Power for ISEP	$ -										
	Power for LPUV	$ -										
	Power for AIR STRIPPER	$ -										
	Power for MISC	$ -										
LP 2.1.02	Labor w/fringe	$ 110,000	$ 55,143		$ 54,089	$/yr		$ 54,089	1,983	man-hr/yr	$ 27.28	/man-hr
LP 2.1.03	Carbon/Resin Purchase	$ 20,000	$ 67,207	c	$ 89,609	$/year	based on 4 changes/yr	$ 89,609	109,600	lb GAC/yr	$ 0.818	/lb GAC
LP 2.1.04	Carbon/Resin Disposal (included w/ Purchase)	$ -	$ -		not used							
LP 2.1.05	Transportation	$ 10,000	$ 1,482	d	$ 2,964	$/year		$ 2,964	8,122	miles/yr	$ 0.365	/mile
LP 2.1.06	Disinfection - Sodium Hypochlorite	$ 3,000	$ 8,065	e	$ 3.29	$/AF	Only for chlorination to address H2O2	$ 11,934	8,138	gallons/yr	$ 1.06	/gal
LP 2.1.07	Water Testing	$ 75,000	$ 133,904		$ 133,900	$/yr	Ave cost per week	$ 133,900	52	week/yr	$ 2,575	/wk
LP 2.1.08	Reports/Compliance with Department of Health Services	$ 10,000	$ 72,725		$ 72,725	$/yr	DHS, AQMD, city	$ 72,725	1	ea		
LP 2.1.09	Permits/Renewals	$ 10,000	$ -		included w/ compliance				-			
LP 2.1.10	Operations Monitoring	$ -	$ 2,799		$ 2,799	$/yr	phone/SCADA	$ 2,799	12	months/yr	$ 223	/month
LP 2.1.11	Brine Disposal	$ 14,000	$ 9,423	f	$ 18,000	$/yr		$ 18,000	12	months/yr	$ 1,180	/month
LP 2.1.12	Materials/Supplies (Salt and Other Consumables)	$ 364,000	$ 364,144	g	$ 148.11	$/AF		$ 537,521				
	Salt		$ 227,910		$ 92.70	$/AF			2,557	tons/yr	$ 89.13	/Ton
	Hydrochloric Acid (31 Wt.%) Bulk		$ 36,828		$ 14.98	$/AF			229,156	CWT/yr	0.16	/CWT
	Sodium Hydroxide (50 Wt%)		$ 30,142		$ 12.26	$/AF			180,959	CWT/yr	$ 0.17	/CWT
	V-Gard 1585		$ 22,350		$ 9.09	$/AF			28,215	lb /yr	$ 0.79	/LB
	Hydrogen Peroxide (Calgon)		$ 13,030		$ 5.30	$/AF			28,660	lb/yr	$ 0.45	/LB
	Hydrogen Peroxide (US Peroxide)		$ 16,998		$ 6.91	$/AF			3,155	gallons/yr	$ 5.39	/GAL
	Hydrochloric Acid (31 Wt.%) Drum		$ 1,747		$ 0.71	$/AF			7,500	lb/yr	$ 0.23	/LB
	10 Micron Bag Filter		$ 15,140		$ 6.16	$/AF			3,700	ea/yr	$ 4.09	/ea
LP 2.1.13	Off-Site Pipe Maintenance	$ 20,000	$ -									
LP 2.1.14	Repair/Replacement @ Treatment Plant	$ 100,000	$ 160,102		$ -							
	ISEP		>>>>>>		$ 46.01	$/AF		$ 166,971				
	AIR STRIPPER		>>>>>>		$ 1.76	$/AF		$ 6,372				
	RAYOX		>>>>>>		$ 12.27	$/AF		$ 44,534				
	MISC		>>>>>>		$ 5.08	$/AF		$ 18,452				
								$ 236,330				
LP 2.1.15	Contractor Labor - Service Agreements, etc.	$ 30,000	$ 41,127									
	R.C. Foster				$ 8,625	$/yr		$ 8,625	1	annual	$ 8,625	/yr
	Trojan				$ 32,502	$/yr		$ 32,502	1	annual	$ 32,502	/yr
LP 2.1.16	Direct Engineering/Legal - Stetson	$ 25,000	$ 57,159		$ 57,159	$/yr		$ 57,159	1	annual	$ 57,159	/yr
LP 2.1.17	Insurance	$ 10,000	$ -	h								
LP 2.1.18	Taxes	$ -	$ -	h								
LP 2.1.19	Water Purchases	$ -	$ 138,153		$ 1.08	$/CCF	127450 CCF purchased in 2002	$ 138,151	127,450	CCF/yr	$ 1.08	/CCF
LP 2.1.20	Water Transfer Cost	$ -	$ -									
LP 2.1.21	Annual O&M Management Fee	$ 28,400	$ 28,400		$ 28,400	$/yr		$ 28,400				
LP 2.1.22	Annual O&M Performance Fee	$ -	$ -									
LP 2.1.80	Other O&M Costs	$ -	$ 564		$ 564	$/yr	Trash service	$ 564				
LP 2.1.90	Contingency	$ -	$ -									
TOTAL		**$ 914,400**	**$ 1,479,129**	i	**$ 350.62**	**$/AF**		**$ 1,911,967**				
				i	**TBD**	**$/yr**	**Purchased Water**					
				i	**$ 501,337**	**$/yr**						

DRAFT

NOTES:

a Based on Data developed by Mike Berlien, Mar. 2003; total water production = 2,458.65 AF.
b Power average cost =$.1355/kwh, original budget = $0.07/kwh. Only treatment plant related cost included. Power use for each process to be determined.
c Only 3 GAC changes were performed in 2002, but 4 changes is anticipated for normal years.
d Transportation costs were for approximately ½ year only.
e Disinfection costs for chlorination to overcome peroxide residuals
f 2002 Brine disposal costs based on 8 months of charges in 2002.
g Total Materials broken into components for future tracking.
h Costs for Insurance and Taxes are not included on LPVCWD.
i These factors can be used to estimate the O&M costs, based on the acre-feet produced, and water tranferred.

Summary of Operation and Maintenance Costs for La Puente Valley County Water District Treatment Facility (March 2001 - August 2003)

Month	O&M Cost	
Mar-01	$	92,268.00
Apr-01	$	53,526.41
May-01	$	42,752.28
Jun-01	$	91,364.36
Jul-01	$	158,190.67
Aug-01	$	133,235.06
Sep-01	$	95,096.26
Oct-01	$	147,823.90
Nov-01	$	70,725.91
Dec-01	$	63,809.58
Jan-02	$	60,911.74
Feb-02	$	-
Mar-02	$	-
Apr-02	$	109,464.19
May-02	$	99,956.35
Jun-02	$	98,228.17
Jul-02	$	109,406.87
Aug-02	$	150,017.52
Sep-02	$	134,067.80
Oct-02	$	136,916.40
Nov-02	$	141,008.06
Dec-02	$	176,567.18
Jan-03	$	198,446.22
Feb-03	$	108,270.54
Mar-03	$	-
Apr-03	$	84,221.69
May-03	$	203,016.39
Jun-03	$	222,897.00
Jul-03	$	165,606.00
Aug-03	$	110,684.01