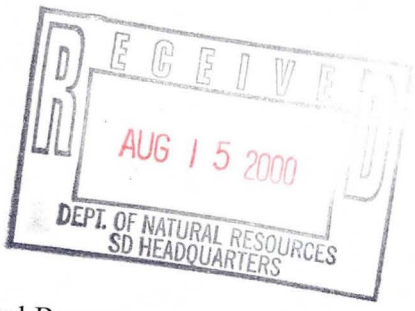


August 15, 2000

Mr. Paul Kozol
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Re: Monthly Monitoring Report for the Oconomowoc Groundwater Treatment Facility

Dear Mr. Kozol:

Attached is the Monthly Monitoring Report for July, 2000 for the above referenced project. Questions regarding these reports should be directed to James Chang of APL, Inc. at (414) 355-5800.

Thank you for your continued cooperation and assistance with this project.

Sincerely,

Dean Groleau

Dean Groleau, Plant Superintendent
APL, Inc.

cc: Steven Brossart, USACE
Steve Padovani, USEPA
James Chang, APL, Inc.
David Brodzinski, WDNR, Horicon
Craig Evans, USACE

8222 W. Calumet Road, P. O. Box 23785, Milwaukee, WI 53223 (414) 355-5800 • Fax#: (414) 355-3099
Wisconsin Dept. of Natural Resources Certificate #241340550

MONTHLY MONITORING REPORT
FOR THE
OCONOMOWOC ELECTROPLATING
GROUNDWATER TREATMENT FACILITY

ASHIPPUN, WISCONSIN 53003

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
ST. PAUL DISTRICT
WINONA, MINNESOTA
CONTRACT DACW37-98-C-0009

Prepared by:

APL, Inc.
8222 West Calumet Road
Milwaukee, WI 53223

August 15, 2000

1.0 Introduction

This report summarizes the monthly effluent monitoring results for the Oconomowoc Electroplating Groundwater Treatment Plant (OEGTP) for July, 2000. The OEGTP is located at the site of the former Oconomowoc Electroplating Company, in Ashippun, WI.

Laboratory results of effluent sampling can be found in the Discharge Monitoring Report Form, sent under separate cover. The effluent sampling was conducted by Dean Groleau, Dave Dugan, and John Rezarch of APL, Inc. Laboratory analysis was provided by APL, Inc., 8222 W. Calumet Road, Milwaukee WI 53223. All sampling and analyses were conducted in accordance with the Oconomowoc Electroplating Groundwater Treatment System's Chemical Data Acquisition Plan (CDAP). The parameters tested for, frequency of testing, sample type, and limits are set forth in the Final Discharge Limits, Table 1 of the Oconomowoc Electroplating Superfund Site Limits and Requirements for Discharge of Treated Groundwater, issued by the Wisconsin Department of Natural Resources (WDNR) on September 24, 1996. This report is submitted in accordance with the reporting requirements of the WDNR permit.

1.1 Site Background Review

The OEGTP is located at 2572 Oak Street in Ashippun, Wisconsin, in the NW 1/4 of the SE 1/4 of Section 30, Township 30 North, Range 17 East. The site consists of approximately 10 acres, which includes approximately 3.5 acres of the former electroplating facility. The site is bounded by Oak Street (Highway 'O') and Eva Street to the North, and Davey Creek and the Town of Ashippun's garage facilities to the South. The property directly across Oak Street is occupied by Thermogas, Inc. A residential area is located across Eva Street, and a wetlands surrounds Davey Creek.

The contact person is Steven Brossart of the U.S. Army Corps of Engineers (USACE). Mr. Brossart's phone number is (507) 454-6150, Fax (507) 454-4963. APL, Inc. is contracted by the USACE to operate and maintain the plant. The contact for the Treatment Plant is Dean Groleau who can be reached at (920) 474-3212, Fax (920) 474-4241. The contact for APL, Inc. is James Chang, who can be reached at (414) 355-5800, Fax (414) 355-3099.

1.2 Project Objectives

The objective of this project is to prevent the spreading of any plume of contamination that may exist at the site. Contaminated groundwater is pumped from five extraction wells, treated for cyanide, metals, suspended solids, and volatile organic compounds (VOC's). The treated water is then transferred to a groundwater effluent gallery, located south of Elm Street, near Davey Creek.

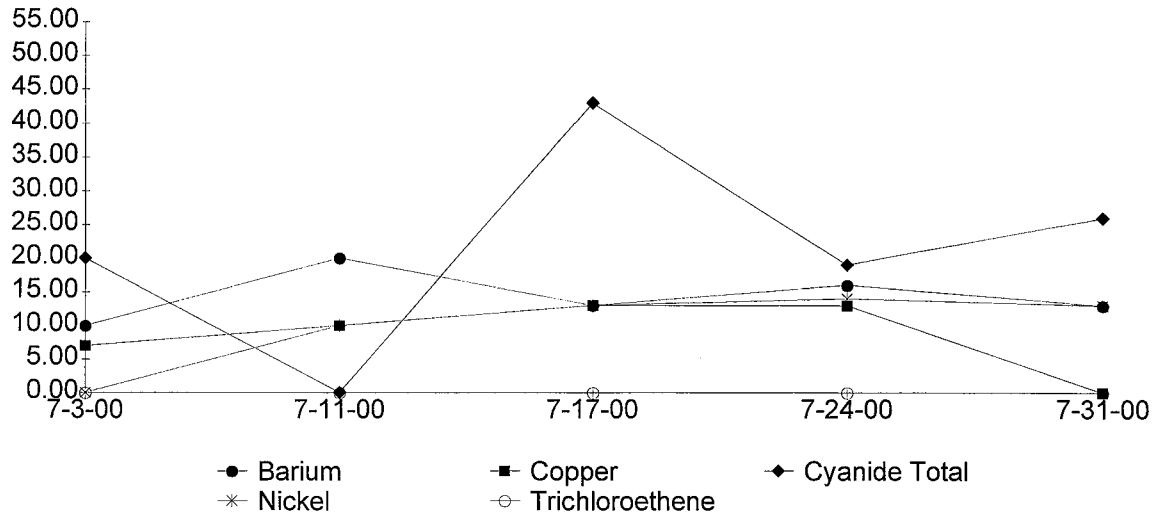
1.3 Effluent Monitoring

Weekly monitoring was conducted on July 3, 11, 17, 24, and 31. The weekly samples for July were tested by APL, Inc. The results of the effluent monitoring tests for the samples taken in July showed an exceedence of the WDNR effluent discharge permit for Total Cyanide on July 17. The limit for Total Cyanide is 40 ug/l and the July 17 result was 43 ug/l. The effluent was resampled on July 19, to verify the number, and the result was 40 ug/l. The Total Cyanide exceedence was expected because the WDNR was conducting a test to find out how much Total Cyanide would be going through the treatment if the Sodium Hypochlorite System was moth balled. The experiment was to shut down the Sodium Hypochlorite System through 4 sampling periods.

1.4 Monitoring Results

Results from weekly effluent monitoring can be found in the *Discharge Monitoring Report Form*, sent under a separate cover. Chart 1, below, shows the results of effluent monitoring for five important indicator parameters listed in the Monitoring Requirements of the *Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96).*

Chart 1 - 5 Important Indicator Parameters



2.0 Plant Permit Exceedences

Paul Kozol, Project Manager from the WDNR, was notified about the exceedence of Total Cyanide on the July 17 sampling. The results of the July 17 sampling of Total Cyanide was 43 ug/l and the permit limit for Total Cyanide is 40 ug/l. Another sample was taken on July 19 to verify that Cyanide result. The results of the July 19 resampling was 40 ug/l. On July 12, an acid cleaning of the Extraction Wells' (EW-1/2/3/4/5) piping was performed that may have lead to an increase of Cyanide to be brought into the treatment plant. On July 11, at the request of Paul Kozol, WDNR, and with the permission of Steve Brossart, USACE, the Sodium Hypochlorite System was shut off to conduct an experiment for the WDNR. The Sodium Hypochlorite System was shut off for 4 sampling periods to determine if Cyanide was actually being treated. Mr. Kozol authorized the treatment plant to continue to operate because of the Cyanide experiment that was being conducted.

3.0 Treatment Plant Shut Downs

The Treatment Plant was shut down two times for a total of 12.33 hours in July, 2000. The shut downs were due to the Crystallization of Sodium Hydroxide and to Remove Sludge from RMT-301 and FT-311. Table 1 shows the summary of the plant down times for the month of July, 2000.

Table 1 - Plant Down Time Summary

Date(s)	Number Hours Shut Down	Reason
7-9/10-00	11	Shut Down Due to Sodium Hydroxide Crystallization
7-18-00	1.33	Shut Down Due to Clean RMT-301 & FT-311
TOTAL	**12.33**	

3.1 Shut Down Due to Sodium Hydroxide Crystallization

On July 9, the Sunday operator discovered that the pH in the Rapid Mix Tank (RMT-301) had dropped to <10.7. This low pH results in deactivating the polymer needed to flocculate the Metals in the Flocculation Tank (FT-311). After the operator, narrowed down the problem to a low flow from the Sodium Hydroxide Tank (SHT-260), he notified the treatment plant superintendent of the situation. The treatment plant superintendent authorized him to shut down the treatment plant. APL, Inc., WDNR, and USACE were notified of the treatment plant shut down. The treatment plant was shut down at 1700 hours on July 9. On July 10, the treatment plant superintendent inspected the situation and rodded out the SHT-260 tank flange connection, cleaned out the in-line strainers to the Sodium Hydroxide Pumps (SHP-261/262/361), and reprimed the pumps. The treatment plant was restarted at 0400 hours and the Clarifier (C-400) was transferred to the Sludge Holding Tank (ST-820) and rinsed out (to reduce the chance of any un-flocculated metals from going through the system). The Tertiary Filtration System (TF-600) was backwashed with effluent to prevent the media from clogging with the polymer. The pH was rising in the RMT-301 and flocculation was returning in FT-311. At 0530 hours, the pH in the RMT-301 started to drop, again. The SHT-260 tank flange connection was rodded out, again, and the Sodium Hydroxide System was inspected. The SHP's discharge lines' pressure release containment bucket was filling up. C-400 was transferred to the ST-820 and the SHP's were shut off and isolated. Each pressure release regulator was inspected and tested. SHP-361's pressure release regulator was found to be leaking. It was replaced with a spare from the shelf and the SHP's were put back in-line. The pH in RMT-301 and the flocculation in FT-311 returned to normal and C-400 was put back in-line. Total down time was 11 hours. APL, Inc., WDNR, and USACE were notified of the treatment plant start up.

3.2 Shut Down for Clean Out of RMT-301 & FT-311

On July 18, the treatment plant was shut down to remove the sludge/hardness build-up from the Rapid Mix Tank (RMT-301) and Flocculation Tank (FT-311). All mixers were shut off and locked out and the pH probe was removed and placed in water. RMT-301 was drained to the Sludge Holding Tank (ST-820) using the Equalization Tank Solids Pump (ESP-120). The access covers were removed and the chemical feed pumps were shut down and isolated. After RMT-301 was drained, the FT-311 was set up to be drained. As FT-311 was draining, the walls and mixer was cleaned in RMT-301 and the walls, floor, and mixer were cleaned in FT-311. The drain hose was put back in line for RMT-301 and the floor was cleaned. All tanks were refilled using ESP-120 in the discharge mode and the treatment plant was restarted. All chemical feed pumps and mixers for RMT-301 and FT-311 were activated. The access covers and pH probe were reinstalled. All levels and flows returned to normal operating parameters. Total down time was 1.33 hours. APL Inc., WDNR, and USACE were notified.

4.0 Summary

Groundwater Treatment Plant effluent monitoring was conducted on July 3, 11, 17, 24, and 31 of 2000. The laboratory results of these samples showed that Total Cyanide exceeded the limit listed in the Requirements of the *Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96)* comply with the permit. See Chart 1, Section 1.4 for *Important Indicator Parameters*.

During the month of July, 2000, the plant was shut down two times for a total of 12.33 hours. See Table 1, Section 3.0 for shut down times. All equipment operation and maintenance related issues are detailed in a separate report, entitled "*Monthly Operation and Maintenance Report for the Oconomowoc Electroplating Groundwater Treatment Facility*". That report will be submitted by August 15, 2000.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-03-00	
Parameter	Influent	After FT-311	After Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.2	11.3	N/A	N/A	7.6	Monitor	
TSS	2	NT	NT	NT	2	Monitor	mg/l
Arsenic	ND	NT	NT	NT	ND	5	
Barium	110	NT	NT	NT	10	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	NT	NT	NT	ND	10	
Copper	ND	NT	NT	NT	7	Monitor	
Iron	1100	NT	NT	NT	90	Monitor	
Lead	ND	NT	NT	NT	ND	1.5	
Manganese	180	NT	NT	NT	7	Monitor	
Mercury	0.3	NT	NT	NT	ND	0.2	
Nickel	30	NT	NT	NT	ND	20	
Selenium	7.1	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	ND	NT	NT	NT	ND	0.4	
Zinc	ND	NT	NT	NT	20	Monitor	
Cyanide	8	NT	NT	NT	20	40	
Cyanide Free	ND	NT	NT	NT	ND	Monitor	
1,1-Dichloroethane	29	NT	ND	ND	ND	85	
1,2-Dichloroethane	ND	NT	ND	ND	ND	0.5	
1,1-Dichloroethene	12	NT	ND	ND	ND	0.7	
1,2-Dichloroethene Cis	44	NT	ND	ND	ND	7	
1,2-Dichloroethene Trans	14	NT	ND	ND	ND	20	
Ethylbenzene	ND	NT	ND	ND	ND	140	
Methylene Chloride	ND	NT	ND	ND	ND	0.5	
Tetrachloroethene	5.6	NT	ND	ND	ND	0.5	
Toluene	ND	NT	ND	ND	ND	68	
1,1,1-Trichloroethane	165	NT	ND	ND	ND	40	
1,1,2-Trichloroethane	ND	NT	ND	ND	ND	0.5	
TCE	529	NT	ND	ND	ND	0.5	
Vinyl Chloride	ND	NT	ND	ND	ND	0.2	
Xylene Total	ND	NT	ND	ND	ND	124	
COD	13	NT	NT	NT	ND	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	ND	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	2.3	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	ND	Monitor	mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-11-00	
Parameter	Influent	After FT-311	After Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.4	11.4	N/A	N/A	7.6	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	ND	NT	NT	NT	ND	5	
Barium	110	NT	NT	NT	20	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	NT	NT	NT	ND	10	
Copper	6	NT	NT	NT	10	Monitor	
Iron	890	NT	NT	NT	430	Monitor	
Lead	ND	NT	NT	NT	ND	1.5	
Manganese	180	NT	NT	NT	6	Monitor	
Mercury	ND	NT	NT	NT	ND	0.2	
Nickel	30	NT	NT	NT	10	20	
Selenium	6.3	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	ND	NT	NT	NT	ND	0.4	
Zinc	ND	NT	NT	NT	ND	Monitor	
Cyanide	40	NT	NT	NT	ND	40	
Cyanide Free	ND	NT	NT	NT	ND	Monitor	
1,1-Dichloroethane	33	NT	ND/ND	ND	ND	85	
1,2-Dichloroethane	ND	NT	ND/ND	ND	ND	0.5	
1,1-Dichloroethene	12	NT	ND/ND	ND	ND	0.7	
1,2-Dichloroethene Cis	50	NT	ND/ND	ND	ND	7	
1,2-Dichloroethene Trans	16	NT	ND/ND	ND	ND	20	
Ethylbenzene	ND	NT	ND/ND	ND	ND	140	
Methylene Chloride	ND	NT	ND/ND	ND	ND	0.5	
Tetrachloroethene	4.8	NT	ND/ND	ND	ND	0.5	
Toluene	4.2	NT	ND/ND	ND	ND	68	
1,1,1-Trichloroethane	177	NT	ND/ND	ND	ND	40	
1,1,2-Trichloroethane	ND	NT	ND/ND	ND	ND	0.5	
TCE	540	NT	.44/.39	ND	ND	0.5	
Vinyl Chloride	ND	NT	ND/ND	ND	ND	0.2	
Xylene Total	ND	NT	ND/ND	ND	ND	124	
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-17-00	
Parameter	Influent	After FT-311	After Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.2	11.1	N/A	N/A	7.6	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	ND	NT	NT	NT	ND	5	
Barium	69	NT	NT	NT	13	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	8	NT	NT	NT	ND	10	
Copper	7	NT	NT	NT	13	Monitor	
Iron	680	NT	NT	NT	165	Monitor	
Lead	ND	NT	NT	NT	ND	1.5	
Manganese	105	NT	NT	NT	ND	Monitor	
Mercury	ND	NT	NT	NT	ND	0.2	
Nickel	24	NT	NT	NT	13	20	
Selenium	ND	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	4.9	NT	NT	NT	ND	0.4	
Zinc	11	NT	NT	NT	29	Monitor	
Cyanide	64/34	NT	NT	NT	43/40	40	*
Cyanide Amenable	ND/ND	NT	NT	NT	ND/ND	Monitor	*
1,1-Dichloroethane	30	NT	ND	ND	ND	85	
1,2-Dichloroethane	ND	NT	ND	ND	ND	0.5	
1,1-Dichloroethene	13	NT	ND	ND	ND	0.7	
1,2-Dichloroethene Cis	48	NT	ND	ND	ND	7	
1,2-Dichloroethene Trans	17	NT	ND	ND	ND	20	
Ethylbenzene	ND	NT	ND	ND	ND	140	
Methylene Chloride	ND	NT	ND	ND	ND	0.5	
Tetrachloroethene	5.5	NT	ND	ND	ND	0.5	
Toluene	ND	NT	ND	ND	ND	68	
1,1,1-Trichloroethane	180	NT	ND	ND	ND	40	
1,1,2-Trichloroethane	ND	NT	ND	ND	ND	0.5	
TCE	557	NT	0.48	ND	ND	0.5	
Vinyl Chloride	ND	NT	ND	ND	ND	0.2	
Xylene Total	ND	NT	ND	ND	ND	124	
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

Sodium Hypochlorite is deactivated for a special WDNR test.--Authorized by Paul Kozol, WDNR & Steve Brossart, USACE.

* Cyanides were resampled and tested on 7-19-00.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-24-00	
Parameter	Influent	After FT-311	After Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.4	11.2	N/A	N/A	7.8	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	ND	NT	NT	NT	ND	5	
Barium	107	NT	NT	NT	16	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	NT	NT	NT	ND	10	
Copper	ND	NT	NT	NT	13	Monitor	
Iron	ND	NT	NT	NT	ND	Monitor	
Lead	ND	NT	NT	NT	ND	1.5	
Manganese	171	NT	NT	NT	ND	Monitor	
Mercury	ND	NT	NT	NT	ND	0.2	
Nickel	20	NT	NT	NT	14	20	
Selenium	ND	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	ND	NT	NT	NT	ND	0.4	
Zinc	21	NT	NT	NT	ND	Monitor	
Cyanide	26	NT	NT	NT	19	40	*
Cyanide Amenable	ND	NT	NT	NT	ND	Monitor	*
1,1-Dichloroethane	32	NT	ND	ND	ND	85	
1,2-Dichloroethane	ND	NT	ND	ND	ND	0.5	
1,1-Dichloroethene	ND	NT	ND	ND	ND	0.7	
1,2-Dichloroethene Cis	50	NT	ND	ND	ND	7	
1,2-Dichloroethene Trans	21	NT	ND	ND	ND	20	
Ethylbenzene	ND	NT	ND	ND	ND	140	
Methylene Chloride	ND	NT	ND	ND	ND	0.5	
Tetrachloroethene	6.1	NT	ND	ND	ND	0.5	
Toluene	ND	NT	ND	ND	ND	68	
1,1,1-Trichloroethane	165	NT	ND	ND	ND	40	
1,1,2-Trichloroethane	ND	NT	ND	ND	ND	0.5	
TCE	524	NT	ND	ND	ND	0.5	
Vinyl Chloride	ND	NT	ND	ND	ND	0.2	
Xylene Total	ND	NT	ND	ND	ND	124	
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

Sodium Hypochlorite is deactivated for a special WDNR test.--Authorized by Paul Kozol, WDNR & Steve Brossart, USACE.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-31-00	
Parameter	Influent	After FT-311	After Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.2	11.1	N/A	N/A	8	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	ND	NT	NT	NT	ND	5	
Barium	120	NT	NT	NT	13	400	
Cadmium	ND	NT	NT	NT	ND	0.5	
Cadmium Total Recoverable	ND	NT	NT	NT	ND	Monitor	
Chromium +6	ND	NT	NT	NT	ND	Monitor	
Chromium Total	ND	NT	NT	NT	ND	10	
Copper	15	NT	NT	NT	ND	Monitor	
Iron	1250	NT	NT	NT	ND	Monitor	
Lead	ND	NT	NT	NT	ND	1.5	
Manganese	181	NT	NT	NT	ND	Monitor	
Mercury	ND	NT	NT	NT	ND	0.2	
Nickel	34	NT	NT	NT	13	20	
Selenium	ND	NT	NT	NT	ND	10	
Silver	ND	NT	NT	NT	ND	10	
Thallium	ND	NT	NT	NT	ND	0.4	
Zinc	104	NT	NT	NT	ND	Monitor	
Cyanide	25/15	NT	NT	NT	26/22	40	*
Cyanide Amenable	ND	NT	NT	NT	ND	Monitor	*
1,1-Dichloroethane	35	NT	ND	ND	ND	85	
1,2-Dichloroethane	ND	NT	ND	ND	ND	0.5	
1,1-Dichloroethene	15	NT	ND	ND	ND	0.7	
1,2-Dichloroethene Cis	55	NT	ND	ND	ND	7	
1,2-Dichloroethene Trans	16	NT	ND	ND	ND	20	
Ethylbenzene	ND	NT	ND	ND	ND	140	
Methylene Chloride	ND	NT	ND	ND	ND	0.5	
Tetrachloroethene	4.9	NT	ND	ND	ND	0.5	
Toluene	ND	NT	ND	ND	ND	68	
1,1,1-Trichloroethane	188	NT	ND	ND	ND	40	
1,1,2-Trichloroethane	ND	NT	ND	ND	ND	0.5	
TCE	549	NT	ND	ND	ND	0.5	
Vinyl Chloride	ND	NT	ND	ND	ND	0.2	
Xylene Total	ND	NT	ND	ND	ND	124	
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

Sodium Hypochlorite is deactivated for a special WDNR test.--Authorized by Paul Kozol, WDNR & Steve Brossart, USACE.
Second Cyanide Number is from a re-sampling that was conducted on August 2, 2000.

MONITOR WELL DEPTHS

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS		WATER LEVEL		FEET		
DATE	MW02DP	MW03SP	MW05P	MW05DP	MW06P	MW11BP
July 31, 1998	6.64	DRY	3.74	4.26	8.00	COVERED
Aug. 31, 1998	7.70	DRY	DRY	5.34	8.70	COVERED
Sept. 17, 1998	7.50	DRY	DRY	5.00	8.66	COVERED
Oct. 7, 1998	6.50	DRY	3.75	4.10	8.34	COVERED
Nov. 23, 1998	6.66	DRY	DRY	4.37	8.17	COVERED
Dec. 15, 1998	5.90	DRY	3.40	3.75	8.20	COVERED
Jan. 18, 1999	6.60	DRY	3.75	4.72	8.25	COVERED
Feb. 3, 1999	5.36	6.10	3.15	2.90	7.15	COVERED
Mar. 3-4, 1999	5.51	DRY	3.20	3.04	7.40	COVERED
Apr. 15, 1999	5.30	6.20	3.25	4.40	6.92	COVERED
May 10, 1999	5.50	6.35	3.35	3.40	7.05	COVERED
June 18, 1999	4.95	6.05	3.00	3.22	6.81	COVERED
July 13, 1999	6.30	DRY	3.80	4.05	7.90	COVERED
August 06, 1999	6.37	DRY	3.58	4.00	7.65	COVERED
Sept. 15, 20, 1999	7.68	DRY	DRY	5.60	DRY	COVERED
October 06, 1999	6.60	DRY	3.84	4.14	DRY	COVERED
November 9,1999	7.78	DRY	DRY	5.48	DRY	COVERED
December 6-7, 1999	6.70	DRY	DRY	4.50	DRY	COVERED
January 7, 2000	7.50	DRY	DRY	5.10	DRY	COVERED
February 7, 2000	7.60	DRY	DRY	5.25	DRY	COVERED
March 8, 2000	6.81	6.40	4.30	4.24	6.82	COVERED
April 6, 2000	6.95	6.16	4.42	4.87	6.42	COVERED
May 3, 2000	6.63	DRY	3.98	4.42	DRY	COVERED
June 1, 2000	4.40	3.14	4.30	2.36	6.26	COVERED
July 3, 2000	4.97	4.81	2.84	2.85	DRY	COVERED

MONITOR WELL DEPTHS

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS		WATER LEVEL	FEET			
DATE	MW12BP	MW12DP	MW13SP	MW14DP	MW15DP	MW16SP
July 31, 1998	4.75	3.78	5.75	4.80	10.49	UNACCESS.
Aug. 31, 1998	5.64	4.48	6.38	4.80	11.64	UNACCESS.
Sept. 17, 1998	5.35	3.20	6.31	4.86	11.10	UNACCESS.
Oct. 7, 1998	4.75	3.65	5.79	4.75	10.60	UNACCESS.
Nov. 23, 1998	4.73	3.70	5.82	4.56	10.46	UNACCESS.
Dec. 15, 1998	4.10	3.00	5.85	4.70	9.95	UNACCESS.
Jan. 18, 1999	4.70	3.70	5.70	5.00	10.50	UNACCESS.
Feb. 3, 1999	3.50	2.48	4.85	3.00	9.27	UNACCESS.
Mar. 3-4, & 16, 1999	3.50	2.70	5.15	3.40	9.20	2.95
Apr. 15,1999	3.61	3.20	4.84	2.60	9.25	2.63
May 10, 1999	3.85	3.05	4.95	2.80	9.45	3.80
June 18, 1999	3.71	3.75	4.87	2.49	9.29	2.81
July 13-14, 1999	4.50	3.65	5.74	3.82	10.19	3.05
August 06, 1999	4.62	3.59	5.48	3.26	10.17	3.32
Sept.13,15,20,23,' 99	6.00	4.90	6.51	4.80	10.95	4.17
October 06, 1999	4.80	3.80	6.00	4.56	10.70	3.40
November 9, 1999	5.80	4.72	6.52	5.63	11.50	5.64
December 6-7, 1999	4.41	3.50	6.17	5.30	10.28	3.10
January 7, 2000	4.40	5.45	6.35	5.60	11.00	4.60
February 7, 2000	5.70	4.65	6.65	5.90	11.50	4.00
March 8-9, 2000	4.52	3.42	5.29	4.24	10.32	2.61
April 6, 2000	4.51	3.95	5.91	4.79	10.15	3.31
May 3, 2000	4.75	3.62	5.76	4.19	10.51	3.15
June 6-7, 2000	3.27	2.20	4.23	1.52	8.98	2.51
July 3, 2000	4.30	2.09	2.10	2.16	8.85	2.50

FLOW FROM EXTRACTION WELLS

YEAR: 2000

MONTH: JULY DAY	FE-100 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	9,495,474.00	23,274.00	0.023	
2	9,518,748.00	25,755.00	0.026	
3	9,544,503.00	26,569.00	0.027	
4	9,571,072.00	32,581.00	0.033	
5	9,603,653.00	28,401.00	0.028	
6	9,632,054.00	25,716.00	0.026	
7	9,657,770.00	26,830.00	0.027	
8	9,684,600.00	24,850.00	0.025	
9	9,709,450.00	17,704.00	0.018	SHUT DOWN
10	9,727,154.00	29,310.00	0.029	SHUT DOWN
11	9,756,464.00	22,598.00	0.023	
12	9,779,062.00	2,489.00	0.002	SHUT DOWN
13	9,781,551.00	30,057.00	0.030	SHUT DOWN
14	9,811,608.00	34,364.00	0.034	
15	9,845,972.00	21,142.00	0.021	
16	9,867,114.00	42,340.00	0.042	
17	9,909,454.00	30,972.00	0.031	
18	9,940,426.00	26,443.00	0.026	SHUT DOWN
19	9,966,869.00	35,366.88	0.035	
20	10,002,235.88	28,810.67	0.029	
21	10,031,046.55	21,164.68	0.021	
22	10,052,211.23	36,574.69	0.037	
23	10,088,785.92	34,561.08	0.035	
24	10,123,347.00	28,799.00	0.029	
25	10,152,146.00	31,076.80	0.031	
26	10,183,222.80	28,366.70	0.028	
27	10,211,589.50	28,116.00	0.028	
28	10,239,705.50	19,444.90	0.019	
29	10,259,150.40	34,649.30	0.035	
30	10,293,799.70	31,488.90	0.031	
31	10,325,288.60	25,510.30	0.026	
August 01	10,350,798.90			SHUT DOWN
		TOTAL	0.855	
		AVERAGE	0.028	

FLOW FROM EQT-100

YEAR: 2000

MONTH: JULY DAY	FE-112 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	3,910,850.00	32,608.00	0.033	
2	3,943,458.00	35,322.00	0.035	
3	3,978,780.00	34,434.00	0.034	
4	4,013,214.00	42,727.00	0.043	
5	4,055,941.00	38,030.00	0.038	
6	4,093,971.00	36,358.00	0.036	
7	4,130,329.00	37,418.00	0.037	
8	4,167,747.00	34,466.00	0.034	
9	4,202,213.00	23,948.00	0.024	SHUT DOWN
10	4,226,161.00	41,507.00	0.042	SHUT DOWN
11	4,267,668.00	38,869.00	0.039	
12	4,306,537.00	35,772.00	0.036	
13	4,342,309.00	37,962.00	0.038	
14	4,380,271.00	44,323.00	0.044	
15	4,424,594.00	27,773.00	0.028	
16	4,452,367.00	55,711.00	0.056	
17	4,508,078.00	40,782.00	0.041	
18	4,548,860.00	34,496.00	0.034	SHUT DOWN
19	4,583,356.00	47,185.00	0.047	
20	4,630,541.00	39,140.00	0.039	
21	4,669,681.00	29,783.00	0.030	
22	4,699,464.00	49,519.00	0.050	
23	4,748,983.00	47,199.00	0.047	
24	4,796,182.00	40,039.00	0.040	
25	4,836,221.00	41,308.00	0.041	
26	4,877,529.00	37,205.00	0.037	
27	4,914,734.00	37,681.00	0.038	
28	4,952,415.00	25,698.00	0.026	
29	4,978,113.00	46,809.00	0.047	
30	5,024,922.00	42,917.00	0.043	
31	5,067,839.00	37,431.00	0.037	
August 01	5,105,270.00			SHUT DOWN
		TOTAL	1.194	
		AVERAGE	0.039	

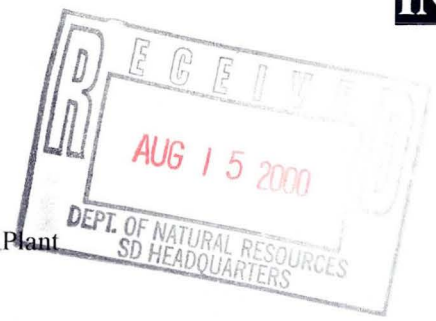
EFFLUENT FLOW FROM PLANT

YEAR: 2000

MONTH: JULY DAY	NPDES STATION TOTALIZER	TOTAL DAY'S FLOW (GAL.)	X2	DAILY FLOW MGD	
1	4,926,210.00	12682.00	25,364.00	0.025	
2	4,938,892.00	12701.00	25,402.00	0.025	
3	4,951,593.00	13466.00	26,932.00	0.027	
4	4,965,059.00	14845.00	29,690.00	0.030	
5	4,979,904.00	14204.00	28,408.00	0.028	
6	4,994,108.00	14669.00	29,338.00	0.029	
7	5,008,777.00	15951.00	31,902.00	0.032	
8	5,024,728.00	13066.00	26,132.00	0.026	
9	5,037,794.00	7395.00	14,790.00	0.015	SHUT DOWN
10	5,045,189.00	14831.00	29662.00	0.030	SHUT DOWN
11	5,060,020.00	12813.00	25626.00	0.026	
12	5,072,833.00	2059.00	4118.00	0.004	SHUT DOWN
13	5,074,892.00	14508.00	29016.00	0.029	
14	5,089,400.00	17366.00	34732.00	0.035	
15	5,106,766.00	10762.00	21524.00	0.022	
16	5,117,528.00	21817.00	43634.00	0.044	
17	5,139,345.00	16214.00	32428.00	0.032	
18	5,155,559.00	13075.00	26150.00	0.026	SHUT DOWN
19	5,168,634.00	18794.00	37588.00	0.038	
20	5,187,428.00	15448.00	30896.00	0.031	
21	5,202,876.00	12424.00	24848.00	0.025	
22	5,215,300.00	19646.00	39292.00	0.039	
23	5,234,946.00	18086.00	36172.00	0.036	
24	5,253,032.00	15904.00	31808.00	0.032	
25	5,268,936.00	15304.00	30608.00	0.031	
26	5,284,240.00	14436.00	28872.00	0.029	
27	5,298,676.00	14926.00	29852.00	0.030	
28	5,313,602.00	10398.00	20796.00	0.021	
29	5,324,000.00	16580.00	33160.00	0.033	
30	5,340,580.00	16717.00	33434.00	0.033	
31	5,357,297.00	14729.00	29458.00	0.029	
August 01	5,372,026.00				SHUT DOWN
			TOTAL	0.892	
			AVERAGE	0.029	

APL INC.

INORGANIC REPORT



WDNR# 241340550

INVOICE NUMBER **20000502**
DATE REPORTED: 03-Aug-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Nova Sample Number: 20305
Client ID: **000711WA01P**
Collection: 7/11/2000 Time: 10:30
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<5.6	ug/l		RJ	5.6	18	206.2	tm	7/18/2000	994682	
Barium - ICAP	0.11	mg/l		RJ	0.007	0.02	200.7	tm	7/13/2000	994659	
Cadmium - Furnace AA	<0.7	ug/l		TTR	0.7	2.2	213.2	tm	7/12/2000	994648	
Chromium, Total - ICAP	<0.008	mg/l		RJ	0.008	0.03	200.7	tm	7/13/2000	994659	
Copper- ICAP	0.006	mg/l	J	RJ	0.006	0.02	200.7	tm	7/13/2000	994659	
Iron - ICAP	0.89	mg/l		RJ	0.081	0.26	200.7	tm	7/13/2000	994659	
Lead - Furnace AA	<1.5	ug/l		RJ	1.5	4.8	239.2	tm	7/13/2000	994654	
Manganese - ICAP	0.18	mg/l		RJ	0.006	0.02	200.7	tm	7/13/2000	994659	
Mercury CV	<0.0002	mg/l		RJ	0.0002	0.0006	245.1	tm	7/12/2000	994644	
Nickel - ICAP	0.03	mg/l	J	RJ	0.011	0.03	200.7	tm	7/13/2000	994659	
Selenium - Furnace AA	6.3	ug/l	J	RJ	4.8	15	270.2	tm	7/19/2000	994698	
Silver - ICAP	<0.004	mg/l		RJ	0.004	0.01	200.7	tm	7/13/2000	994659	
Thallium - Furnace AA	<1.7	ug/l		RJ	1.7	5.4	279.2	tm	7/12/2000	994650	
Zinc - ICAP	<0.008	mg/l		RJ	0.014	0.04	200.7	tm	7/13/2000	994659	
Chromium, Hexavalent	<0.0042	mg/l			0.004	0.01	SM 3500D	ta	7/12/2000	994699	
Cyanide, Amenable	<0.006	mg/l			0.006	0.02	335.2	dmd	7/19/2000	994695	
Cyanide, Total	0.04	mg/l			0.006	0.02	335.2	dmd	7/19/2000	994697	
pH (water)	7.4	s.u.	#				150.1	tn	7/11/2000	994635	

Nova Sample Number: 20306
Client ID: **000711WA09R**
Collection: 7/11/2000 Time: 11:05
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<5.6	ug/l		RJ	5.6	18	206.2	tm	7/18/2000	994682	
Barium - ICAP	0.02	mg/l	J	RJ	0.007	0.02	200.7	tm	7/13/2000	994659	
Cadmium - Furnace AA	<0.7	ug/l		TTR	0.7	2.2	213.2	tm	7/12/2000	994648	
Chromium, Total - ICAP	<0.008	mg/l		RJ	0.008	0.03	200.7	tm	7/13/2000	994659	
Copper- ICAP	0.01	mg/l	J	RJ	0.006	0.02	200.7	tm	7/13/2000	994659	
Iron - ICAP	0.43	mg/l		RJ	0.081	0.26	200.7	tm	7/13/2000	994659	
Lead - Furnace AA	<1.5	ug/l		RJ	1.5	4.8	239.2	tm	7/13/2000	994654	
Manganese - ICAP	0.006	mg/l	J	RJ	0.006	0.02	200.7	tm	7/13/2000	994659	
Mercury CV	<0.0002	mg/l		RJ	0.0002	0.0006	245.1	tm	7/12/2000	994644	
Nickel - ICAP	0.01	mg/l	J	RJ	0.011	0.03	200.7	tm	7/13/2000	994659	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20000502**
DATE REPORTED: 03-Aug-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	tm	7/19/2000	*994698*	
Silver - ICAP	**<0.004**	**mg/l**	**RJ**	0.004	0.01	200.7	tm	7/13/2000	*994659*	
Thallium - Furnace AA	**<1.7**	**ug/l**	**RJ**	1.7	5.4	279.2	tm	7/12/2000	*994650*	
Zinc - ICAP	**<0.014**	**mg/l**	**RJ**	0.014	0.04	200.7	tm	7/13/2000	*994659*	
Nova Sample Number: 20307										
Client ID: **000711WA02P**								Collection: 7/11/2000	Time: 10:50	
								Sample Description:		
pH (water)	**9.4**	**s.u.**	**#**			150.1	tn	7/11/2000	*994635*	
Nova Sample Number: 20308										
Client ID: **000711WA03P**								Collection: 7/11/2000	Time: 10:52	
								Sample Description:		
pH (water)	**11**	**s.u.**	**#**			150.1	tn	7/11/2000	*994635*	
Nova Sample Number: 20309										
Client ID: **000711WA05P**								Collection: 7/11/2000	Time: 10:35	
								Sample Description:		
pH (water)	**7.5**	**s.u.**	**#**			150.1	tn	7/11/2000	*994635*	
Nova Sample Number: 20314										
Client ID: **000711WA09P**								Collection: 7/11/2000	Time: 10:45	
								Sample Description:		
Chromium, Hexavalent	**<0.0042**	**mg/l**		0.004	0.01	SM 3500D	ta	7/12/2000	*994699*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	dmd	7/19/2000	*994695*	
Cyanide, Total	**<0.006**	**mg/l**		0.006	0.02	335.2	dmd	7/19/2000	*994697*	
pH (water)	**7.6**	**s.u.**	**#**			150.1	tn	7/11/2000	*994635*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER	**20000502**
DATE REPORTED:	03-Aug-00
DATE RECEIVED:	11-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments

Approved By: _____ **Date:** 8/3/00

James Chang, Ph.D., Lab Director

RJ *Result expressed as Total.*

TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B "J" = Results between LOD and LOQ "#" = no LOD or LOQ required.
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: **20305**				QC Prep Batch Number: 994653			*Sample analyzed within*	*1*	*Day(s) from collection.*	
Client ID: **000711WA01P** Sample Description:							*Collection:*	*7/11/2000*	*Time:*	*10:30*
1,1,1,2-Tetrachloroethane	< 2.2	**ug/l**	2.2	7	ns	10		8260	cps	7/12/2000
1,1,1-Trichloroethane	177	**ug/l**	3.1	9.9	40	10		8260	cps	7/12/2000
1,1,2,2-Tetrachloroethane	< 4.4	**ug/l**	4.4	14	0.02	10		8260	cps	7/12/2000
1,1,2-Trichloroethane	< 4.4	**ug/l**	4.4	14	0.5	10		8260	cps	7/12/2000
1,1-Dichloroethane	33	**ug/l**	3.2	10	85	10		8260	cps	7/12/2000
1,1-Dichloroethene	12	**ug/l**	3.4	11	0.7	10		8260	cps	7/12/2000
1,1-Dichloropropene	< 4.3	**ug/l**	4.3	14	ns	10		8260	cps	7/12/2000
1,2,3-Trichlorobenzene	< 5	**ug/l**	5	16	ns	10		8260	cps	7/12/2000
1,2,3-Trichloropropane	< 5.1	**ug/l**	5.1	16	ns	10		8260	cps	7/12/2000
1,2,4-Trichlorobenzene	< 4.7	**ug/l**	4.7	15	14	10		8260	cps	7/12/2000
1,2,4-Trimethylbenzene	5.3	**ug/l**	3	9.5	ns	10	*J*	8260	cps	7/12/2000
1,2-Dibromoethane	< 4.6	**ug/l**	4.6	15	0.005	10		8260	cps	7/12/2000
1,2-Dichlorobenzene	< 3.4	**ug/l**	3.4	11	60	10		8260	cps	7/12/2000
1,2-Dichloroethane	< 3.5	**ug/l**	3.5	11	0.5	10		8260	cps	7/12/2000
1,2-Dichloropropane	< 3.2	**ug/l**	3.2	10	0.5	10		8260	cps	7/12/2000
1,3,5-Trimethylbenzene	< 3.4	**ug/l**	3.4	11	ns	10		8260	cps	7/12/2000
1,3-Dichlorobenzene	< 2.6	**ug/l**	2.6	8.3	125	10		8260	cps	7/12/2000
1,3-Dichloropropane	< 3.9	**ug/l**	3.9	12	ns	10		8260	cps	7/12/2000
1,4-Dichlorobenzene	< 3.6	**ug/l**	3.6	11	15	10		8260	cps	7/12/2000
12Dibromo-3-chloropropan	< 3.3	**ug/l**	3.3	10	0.02	10		8260	cps	7/12/2000
2,2-Dichloropropane	< 2.7	**ug/l**	2.7	8.6	ns	10		8260	cps	7/12/2000
2-Butanone (MEK)	< 14	**ug/l**	14	44	90	10		8260	cps	7/12/2000
2-Chloroethyl Vinyl Ether	< 7	**ug/l**	7	22	ns	10		8260	cps	7/12/2000
2-Chlorotoluene	< 3	**ug/l**	3	9.5	ns	10		8260	cps	7/12/2000
4-Chlorotoluene	< 2.6	**ug/l**	2.6	8.3	ns	10		8260	cps	7/12/2000
4-Methyl-2-Pentanone	< 8	**ug/l**	8	25	50	10		8260	cps	7/12/2000
Acetone	< 16	**ug/l**	16	49	200	10		8260	cps	7/12/2000
Benzene	< 2.7	**ug/l**	2.7	8.6	0.5	10		8260	cps	7/12/2000
Bromobenzene	< 3.1	**ug/l**	3.1	9.9	ns	10		8260	cps	7/12/2000
Bromochloromethane	< 3.7	**ug/l**	3.7	12	ns	10		8260	cps	7/12/2000
Bromodichloromethane	< 3.8	**ug/l**	3.8	12	0.06	10		8260	cps	7/12/2000
Bromoform	< 3.9	**ug/l**	3.9	12	0.44	10		8260	cps	7/12/2000
Bromomethane	< 6.5	**ug/l**	6.5	21	1	10		8260	cps	7/12/2000
Carbon tetrachloride	< 2.7	**ug/l**	2.7	8.6	0.5	10		8260	cps	7/12/2000
Chlorobenzene	< 2.6	**ug/l**	2.6	8.3	20	10		8260	cps	7/12/2000
Chloroethane	< 6.4	**ug/l**	6.4	20	80	10		8260	cps	7/12/2000
Chloroform	< 2.4	**ug/l**	2.4	7.6	0.6	10		8260	cps	7/12/2000
Chloromethane	< 4.9	**ug/l**	4.9	16	0.3	10		8260	cps	7/12/2000
cis-1,2-Dichloroethene	50	**ug/l**	2.7	8.6	7	10		8260	cps	7/12/2000
cis-1,3-Dichloropropene	< 3.7	**ug/l**	3.7	12	0.02	10		8260	cps	7/12/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 4.1	ug/l	4.1	13	6	10		8260	cps	7/12/2000
Dibromomethane	< 4.6	ug/l	4.6	15	ns	10		8260	cps	7/12/2000
Dichlorodifluoromethane	< 2.7	ug/l	2.7	8.6	200	10		8260	cps	7/12/2000
Ethylbenzene	< 2.5	ug/l	2.5	8	140	10		8260	cps	7/12/2000
Hexachlorobutadiene	< 4.2	ug/l	4.2	13	ns	10		8260	cps	7/12/2000
Isopropyl Ether	< 3	ug/l	3	9.5	ns	10		8260	cps	7/12/2000
Isopropylbenzene	< 3.3	ug/l	3.3	10	ns	10		8260	cps	7/12/2000
m&p-xylene	< 5.3	ug/l	5.3	17	124	10		8260	cps	7/12/2000
Methyl-t-butyl ether	< 3.9	ug/l	3.9	12	12	10		8260	cps	7/12/2000
Methylene chloride	< 3	ug/l	3	9.5	0.5	10		8260	cps	7/12/2000
n-Butylbenzene	< 3.6	ug/l	3.6	11	ns	10		8260	cps	7/12/2000
n-Propylbenzene	< 2.8	ug/l	2.8	8.9	ns	10		8260	cps	7/12/2000
Naphthalene	< 7.5	ug/l	7.5	24	8	10		8260	cps	7/12/2000
o-xylene	< 2.5	ug/l	2.5	8	124	10		8260	cps	7/12/2000
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.9	ns	10		8260	cps	7/12/2000
sec-Butylbenzene	< 3.4	ug/l	3.4	11	ns	10		8260	cps	7/12/2000
Styrene	< 2.5	ug/l	2.5	8	10	10		8260	cps	7/12/2000
tert-Butylbenzene	< 3	ug/l	3	9.5	ns	10		8260	cps	7/12/2000
Tetrachloroethene	4.8	ug/l	3.1	9.9	0.5	10	J	8260	cps	7/12/2000
Toluene	4.2	ug/l	2.9	9.2	68.6	10	J	8260	cps	7/12/2000
trans-1,2-Dichloroethene	16	ug/l	2.5	8	20	10		8260	cps	7/12/2000
trans-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.3	0.02	10		8260	cps	7/12/2000
Trichloroethene	540	ug/l	3.4	11	0.5	10		8260	cps	7/12/2000
Trichlorofluoromethane	< 2.4	ug/l	2.4	7.6	ns	10		8260	cps	7/12/2000
Vinyl chloride	< 2.1	ug/l	2.1	6.7	0.02	10		8260	cps	7/12/2000

Sample Number: **20310** QC Prep Batch Number: 994653 *Sample analyzed within 1 Day(s) from collection.*
Client ID: **000711WA07P** Sample Description: *Collection: 7/11/2000 Time: 10:40*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/12/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/12/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/12/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/12/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/12/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/12/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/12/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/12/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/12/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/12/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/12/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/12/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/12/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/12/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/12/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/12/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/12/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/12/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/12/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/12/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/12/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/12/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/12/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/12/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/12/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/12/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/12/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/12/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/12/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/12/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/12/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/12/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/12/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/12/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/12/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/12/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/12/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/12/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/12/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/12/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/12/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/12/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/12/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/12/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/12/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/12/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/12/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/12/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/12/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/12/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/12/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/12/2000
Trichloroethene	0.44	ug/l	0.34	1.1	0.5	1	J	8260	cps	7/12/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/12/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/12/2000

Sample Number: **20311** QC Prep Batch Number: 994653 *Sample analyzed within 1 Day(s) from collection.*
Client ID: **000711WA08P** Sample Description: *Collection: 7/11/2000 Time: 11:05*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/12/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/12/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/12/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/12/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/12/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/12/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/12/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/12/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/12/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/12/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/12/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/12/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/12/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/12/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/12/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/12/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/12/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/12/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/12/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/12/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/12/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/12/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/12/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/12/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/12/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/12/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/12/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/12/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/12/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/12/2000
Chloroform	0.27	ug/l	0.24	0.76	0.6	1	J	8260	cps	7/12/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/12/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/12/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/12/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/12/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/12/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/12/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/12/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/12/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/12/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/12/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/12/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/12/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/12/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/12/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/12/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/12/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/12/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/12/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/12/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/12/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/12/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/12/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/12/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/12/2000

Sample Number: **20312** QC Prep Batch Number: 994653 *Sample analyzed within 1 Day(s) from collection.*
Client ID: **000711WA07Q** Sample Description: *Collection: 7/11/2000 Time: 10:40*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/12/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/12/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/12/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/12/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/12/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/12/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/12/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/12/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/12/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/12/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/12/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/12/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/12/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/12/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/12/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/12/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/12/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/12/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/12/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/12/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/12/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/12/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/12/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/12/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/12/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/12/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/12/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/12/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/12/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/12/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/12/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/12/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/12/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/12/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/12/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/12/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/12/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/12/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/12/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/12/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/12/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/12/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/12/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/12/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/12/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/12/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/12/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/12/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/12/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/12/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/12/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/12/2000
Trichloroethene	0.39	ug/l	0.34	1.1	0.5	1	J	8260	cps	7/12/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/12/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/12/2000

Sample Number: **20313** QC Prep Batch Number: 994653 *Sample analyzed within 1 Day(s) from collection.*
Client ID: **Trip Blank** Sample Description: *Collection: 7/11/2000 Time:*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/12/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/12/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/12/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/12/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/12/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/12/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/12/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/12/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/12/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/12/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/12/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/12/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/12/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/12/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/12/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/12/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/12/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/12/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/12/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/12/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/12/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/12/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/12/2000
Acetone	33	ug/l	1.6	4.9	200	1		8260	cps	7/12/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/12/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/12/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/12/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/12/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/12/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/12/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/12/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/12/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/12/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/12/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/12/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/12/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/12/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/12/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/12/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/12/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/12/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/12/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/12/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/12/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/12/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/12/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/12/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/12/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/12/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/12/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/12/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/12/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/12/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/12/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/12/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/12/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20000502**
DATE REPORTED:	20-Jul-00
DATE RECEIVED:	11-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: **20314**		QC Prep Batch Number: 994653			*Sample analyzed within*		*1 Day(s) from collection.*			
Client ID: **000711WA09P** Sample Description:					*Collection: 7/11/2000*		*Time: 10:45*			
1,1,1,2-Tetrachloroethane	< 0.22	**ug/l**	0.22	0.7	ns	1		8260	cps	7/12/2000
1,1,1-Trichloroethane	< 0.31	**ug/l**	0.31	0.99	40	1		8260	cps	7/12/2000
1,1,2,2-Tetrachloroethane	< 0.44	**ug/l**	0.44	1.4	0.02	1		8260	cps	7/12/2000
1,1,2-Trichloroethane	< 0.44	**ug/l**	0.44	1.4	0.5	1		8260	cps	7/12/2000
1,1-Dichloroethane	< 0.32	**ug/l**	0.32	1	85	1		8260	cps	7/12/2000
1,1-Dichloroethene	< 0.34	**ug/l**	0.34	1.1	0.7	1		8260	cps	7/12/2000
1,1-Dichloropropene	< 0.43	**ug/l**	0.43	1.4	ns	1		8260	cps	7/12/2000
1,2,3-Trichlorobenzene	< 0.5	**ug/l**	0.5	1.6	ns	1		8260	cps	7/12/2000
1,2,3-Trichloropropane	< 0.51	**ug/l**	0.51	1.6	ns	1		8260	cps	7/12/2000
1,2,4-Trichlorobenzene	< 0.47	**ug/l**	0.47	1.5	14	1		8260	cps	7/12/2000
1,2,4-Trimethylbenzene	< 0.3	**ug/l**	0.3	0.95	ns	1		8260	cps	7/12/2000
1,2-Dibromoethane	< 0.46	**ug/l**	0.46	1.5	0.005	1		8260	cps	7/12/2000
1,2-Dichlorobenzene	< 0.34	**ug/l**	0.34	1.1	60	1		8260	cps	7/12/2000
1,2-Dichloroethane	< 0.35	**ug/l**	0.35	1.1	0.5	1		8260	cps	7/12/2000
1,2-Dichloropropane	< 0.32	**ug/l**	0.32	1	0.5	1		8260	cps	7/12/2000
1,3,5-Trimethylbenzene	< 0.34	**ug/l**	0.34	1.1	ns	1		8260	cps	7/12/2000
1,3-Dichlorobenzene	< 0.26	**ug/l**	0.26	0.83	125	1		8260	cps	7/12/2000
1,3-Dichloropropane	< 0.39	**ug/l**	0.39	1.2	ns	1		8260	cps	7/12/2000
1,4-Dichlorobenzene	< 0.36	**ug/l**	0.36	1.1	15	1		8260	cps	7/12/2000
12Dibromo-3-chloropropan	< 0.33	**ug/l**	0.33	1	0.02	1		8260	cps	7/12/2000
2,2-Dichloropropane	< 0.27	**ug/l**	0.27	0.86	ns	1		8260	cps	7/12/2000
2-Butanone (MEK)	< 1.4	**ug/l**	1.4	4.4	90	1		8260	cps	7/12/2000
2-Chloroethyl Vinyl Ether	< 0.7	**ug/l**	0.7	2.2	ns	1		8260	cps	7/12/2000
2-Chlorotoluene	< 0.3	**ug/l**	0.3	0.95	ns	1		8260	cps	7/12/2000
4-Chlorotoluene	< 0.26	**ug/l**	0.26	0.83	ns	1		8260	cps	7/12/2000
4-Methyl-2-Pentanone	< 0.8	**ug/l**	0.8	2.5	50	1		8260	cps	7/12/2000
Acetone	< 1.6	**ug/l**	1.6	4.9	200	1		8260	cps	7/12/2000
Benzene	< 0.27	**ug/l**	0.27	0.86	0.5	1		8260	cps	7/12/2000
Bromobenzene	< 0.31	**ug/l**	0.31	0.99	ns	1		8260	cps	7/12/2000
Bromochloromethane	< 0.37	**ug/l**	0.37	1.2	ns	1		8260	cps	7/12/2000
Bromodichloromethane	< 0.38	**ug/l**	0.38	1.2	0.06	1		8260	cps	7/12/2000
Bromoform	< 0.39	**ug/l**	0.39	1.2	0.44	1		8260	cps	7/12/2000
Bromomethane	< 0.65	**ug/l**	0.65	2.1	1	1		8260	cps	7/12/2000
Carbon tetrachloride	< 0.27	**ug/l**	0.27	0.86	0.5	1		8260	cps	7/12/2000
Chlorobenzene	< 0.26	**ug/l**	0.26	0.83	20	1		8260	cps	7/12/2000
Chloroethane	< 0.64	**ug/l**	0.64	2	80	1		8260	cps	7/12/2000
Chloroform	0.26	**ug/l**	0.24	0.76	0.6	1	*J*	8260	cps	7/12/2000
Chloromethane	< 0.49	**ug/l**	0.49	1.6	0.3	1		8260	cps	7/12/2000
cis-1,2-Dichloroethene	< 0.27	**ug/l**	0.27	0.86	7	1		8260	cps	7/12/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000502**
DATE REPORTED: 20-Jul-00
DATE RECEIVED: 11-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Weekly Sampling

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/12/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/12/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/12/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/12/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/12/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/12/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/12/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/12/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/12/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/12/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/12/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/12/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/12/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/12/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/12/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/12/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/12/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/12/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/12/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/12/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/12/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/12/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/12/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/12/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/12/2000

Approved By: _____ **Date:** 7/20/00
James Chang, Ph.D. , Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range .*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20000527**
DATE REPORTED: 03-Aug-00
DATE RECEIVED: 20-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 20399										
Client ID: **000719WA01P**										
							Collection: 7/19/2000			Time: 11:55
							Sample Description:			
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	dmd	7/20/2000	*994712*	
Cyanide, Total	**0.03**	**mg/l**		0.006	0.02	335.2		7/19/2000	*994715*	
Nova Sample Number: 20400										
Client ID: **000719WA09P**										
							Collection: 7/19/2000			Time: 11:58
							Sample Description:			
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	dmd	7/20/2000	*994712*	
Cyanide, Total	**0.04**	**mg/l**		0.006	0.02	335.2		7/19/2000	*994715*	

Approved By: _____ **Date:** 8/9/0

James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"J" = Results between LOD and LOQ* *"#" = no LOD or LOQ required.*
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20000515**
DATE REPORTED: 03-Aug-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Nova Sample Number: 20347
Client ID: **000717WA01P**
Collection: 7/17/2000 Time: 08:48
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	**<5.6**	**ug/l**		**RJ**	5.6	18	206.2	tm	7/18/2000	*994682*	
Barium - ICAP	**0.07**	**mg/l**		**RJ**	0.007	0.02	200.7	tm	7/18/2000	*994689*	
Cadmium - Furnace AA	**<0.7**	**ug/l**		**TTR**	0.7	2.2	213.2	tm	7/19/2000	*994706*	
Chromium, Total - ICAP	**0.008**	**mg/l**	*J*	**RJ**	0.008	0.03	200.7	tm	7/18/2000	*994689*	
Copper- ICAP	**0.007**	**mg/l**	*J*	**RJ**	0.006	0.02	200.7	tm	7/18/2000	*994689*	
Iron - ICAP	**0.68**	**mg/l**		**RJ**	0.081	0.26	200.7	tm	7/18/2000	*994689*	
Lead - Furnace AA	**<1.5**	**ug/l**		**RJ**	1.5	4.8	239.2	tm	7/19/2000	*994705*	
Manganese - ICAP	**0.11**	**mg/l**		**RJ**	0.006	0.02	200.7	tm	7/18/2000	*994689*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	tm	7/20/2000	*994711*	
Nickel - ICAP	**0.02**	**mg/l**	*J*	**RJ**	0.011	0.03	200.7	tm	7/18/2000	*994689*	
Selenium - Furnace AA	**<4.8**	**ug/l**		**RJ**	4.8	15	270.2	tm	7/19/2000	*994698*	
Silver - ICAP	**<0.004**	**mg/l**		**RJ**	0.004	0.01	200.7	tm	7/18/2000	*994689*	
Thallium - Furnace AA	**4.9**	**ug/l**	*J*	**RJ**	1.7	5.4	279.2	tm	7/19/2000	*994708*	
Zinc - ICAP	**0.01**	**mg/l**	*J*	**RJ**	0.014	0.04	200.7	tm	7/18/2000	*994689*	
Chromium, Hexavalent	**<0.0042**	**mg/l**			0.004	0.01	SM 3500D	ta	7/18/2000	*994699*	
Cyanide, Amenable	**<0.006**	**mg/l**		**RJ**	0.006	0.02	335.2	dmd	7/20/2000	*994712*	
Cyanide, Total	**0.06**	**mg/l**			0.006	0.02	335.2	dmd	7/19/2000	*994715*	
pH (water)	**7.2**	**s.u.**	#				150.1	tn	7/18/2000	*994684*	

Nova Sample Number: 20348
Client ID: **000717WA09R**
Collection: 7/17/2000 Time: 08:50
Sample Description:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	**<5.6**	**ug/l**		**RJ**	5.6	18	206.2	tm	7/18/2000	*994682*	
Barium - ICAP	**0.01**	**mg/l**	*J*	**RJ**	0.007	0.02	200.7	tm	7/18/2000	*994689*	
Cadmium - Furnace AA	**<0.7**	**ug/l**		**TTR**	0.7	2.2	213.2	tm	7/19/2000	*994706*	
Chromium, Total - ICAP	**<0.008**	**mg/l**		**RJ**	0.008	0.03	200.7	tm	7/18/2000	*994689*	
Copper- ICAP	**0.01**	**mg/l**	*J*	**RJ**	0.006	0.02	200.7	tm	7/18/2000	*994689*	
Iron - ICAP	**0.17**	**mg/l**	*J*	**RJ**	0.081	0.26	200.7	tm	7/18/2000	*994689*	
Lead - Furnace AA	**<1.5**	**ug/l**		**RJ**	1.5	4.8	239.2	tm	7/19/2000	*994705*	
Manganese - ICAP	**<0.006**	**mg/l**		**RJ**	0.006	0.02	200.7	tm	7/18/2000	*994689*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	tm	7/20/2000	*994711*	
Nickel - ICAP	**0.01**	**mg/l**	*J*	**RJ**	0.011	0.03	200.7	tm	7/18/2000	*994689*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20000515**
DATE REPORTED: 03-Aug-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	tm	7/19/2000	*994698*	
Silver - ICAP	**<0.004**	**mg/l**	**RJ**	0.004	0.01	200.7	tm	7/18/2000	*994689*	
Thallium - Furnace AA	**<1.7**	**ug/l**	**RJ**	1.7	5.4	279.2	tm	7/19/2000	*994708*	
Zinc - ICAP	**0.03**	**mg/l**	***J*** **RJ**	0.014	0.04	200.7	tm	7/18/2000	*994689*	
Nova Sample Number: 20349										
Client ID: **000717WA02P**								Collection: 7/17/2000		Time: 09:05
								Sample Description:		
pH (water)	**9.8**	**s.u.**	**#**			150.1	tn	7/18/2000	*994684*	
Nova Sample Number: 20350										
Client ID: **000717WA03P**								Collection: 7/17/2000		Time: 09:07
								Sample Description:		
pH (water)	**11**	**s.u.**	**#**			150.1	tn	7/18/2000	*994684*	
Nova Sample Number: 20351										
Client ID: **000717WA05P**								Collection: 7/17/2000		Time: 09:40
								Sample Description:		
pH (water)	**7.1**	**s.u.**	**#**			150.1	tn	7/18/2000	*994684*	
Nova Sample Number: 20355										
Client ID: **000717WA09P**								Collection: 7/17/2000		Time: 08:50
								Sample Description:		
Chromium, Hexavalent	**<0.0042**	**mg/l**		0.004	0.01	SM 3500D	ta	7/18/2000	*994699*	
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	dmd	7/20/2000	*994712*	
Cyanide, Total	**0.04**	**mg/l**		0.006	0.02	335.2		7/19/2000	*994715*	
pH (water)	**7.6**	**s.u.**	**#**			150.1	tn	7/18/2000	*994685*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20000515**
DATE REPORTED: 03-Aug-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments

Approved By: _____ **Date:** 8/3/00
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"J" = Results between LOD and LOQ* *"#" = no LOD or LOQ required.*
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Sample Number: 20347 QC Prep Batch Number: 994716 Collection: 7/17/2000 Time: 08:48
Client ID: 000717WA01P Sample Description:

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,1,1,2-Tetrachloroethane	< 2.2	ug/l	2.2	7.0	10		8260	cps	/ 7/18/2000
1,1,1-Trichloroethane	180	ug/l	3.1	9.9	10		8260	cps	/ 7/18/2000
1,1,2,2-Tetrachloroethane	< 4.4	ug/l	4.4	14	10		8260	cps	/ 7/18/2000
1,1,2-Trichloroethane	< 4.4	ug/l	4.4	14	10		8260	cps	/ 7/18/2000
1,1-Dichloroethane	30	ug/l	3.2	10	10		8260	cps	/ 7/18/2000
1,1-Dichloroethene	13	ug/l	3.4	11	10		8260	cps	/ 7/18/2000
1,1-Dichloropropene	< 4.3	ug/l	4.3	14	10		8260	cps	/ 7/18/2000
1,2,3-Trichlorobenzene	< 5.0	ug/l	5.0	16	10		8260	cps	/ 7/18/2000
1,2,3-Trichloropropane	< 5.1	ug/l	5.1	16	10		8260	cps	/ 7/18/2000
1,2,4-Trichlorobenzene	< 4.7	ug/l	4.7	15	10		8260	cps	/ 7/18/2000
1,2,4-Trimethylbenzene	< 3.0	ug/l	3.0	9.5	10		8260	cps	/ 7/18/2000
1,2-Dibromoethane	< 4.6	ug/l	4.6	15	10		8260	cps	/ 7/18/2000
1,2-Dichlorobenzene	< 3.4	ug/l	3.4	11	10		8260	cps	/ 7/18/2000
1,2-Dichloroethane	< 3.5	ug/l	3.5	11	10		8260	cps	/ 7/18/2000
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10		8260	cps	/ 7/18/2000
1,3,5-Trimethylbenzene	< 3.4	ug/l	3.4	11	10		8260	cps	/ 7/18/2000
1,3-Dichlorobenzene	< 2.6	ug/l	2.6	8.3	10		8260	cps	/ 7/18/2000
1,3-Dichloropropane	< 3.9	ug/l	3.9	12	10		8260	cps	/ 7/18/2000
1,4-Dichlorobenzene	< 3.6	ug/l	3.6	11	10		8260	cps	/ 7/18/2000
12Dibromo-3-chloropropan	< 3.3	ug/l	3.3	10	10		8260	cps	/ 7/18/2000
2,2-Dichloropropane	< 2.7	ug/l	2.7	8.6	10		8260	cps	/ 7/18/2000
2-Butanone (MEK)	< 14	ug/l	14	44	10		8260	cps	/ 7/18/2000
2-Chloroethyl Vinyl Ether	< 7.0	ug/l	7.0	22	10		8260	cps	/ 7/18/2000
2-Chlorotoluene	< 3.0	ug/l	3.0	9.5	10		8260	cps	/ 7/18/2000
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	10		8260	cps	/ 7/18/2000
4-Methyl-2-Pentanone	< 8.0	ug/l	8.0	25	10		8260	cps	/ 7/18/2000
Acetone	< 16	ug/l	16	49	10		8260	cps	/ 7/18/2000
Benzene	< 2.7	ug/l	2.7	8.6	10		8260	cps	/ 7/18/2000
Bromobenzene	< 3.1	ug/l	3.1	9.9	10		8260	cps	/ 7/18/2000
Bromochloromethane	< 3.7	ug/l	3.7	12	10		8260	cps	/ 7/18/2000
Bromodichloromethane	< 3.8	ug/l	3.8	12	10		8260	cps	/ 7/18/2000
Bromoform	< 3.9	ug/l	3.9	12	10		8260	cps	/ 7/18/2000
Bromomethane	< 6.5	ug/l	6.5	21	10		8260	cps	/ 7/18/2000
Carbon tetrachloride	< 2.7	ug/l	2.7	8.6	10		8260	cps	/ 7/18/2000
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10		8260	cps	/ 7/18/2000
Chloroethane	9.6	ug/l	6.4	20	10	J	8260	cps	/ 7/18/2000
Chloroform	< 2.4	ug/l	2.4	7.6	10		8260	cps	/ 7/18/2000
Chloromethane	< 4.9	ug/l	4.9	16	10		8260	cps	/ 7/18/2000
cis-1,2-Dichloroethene	48	ug/l	2.7	8.6	10		8260	cps	/ 7/18/2000
cis-1,3-Dichloropropene	< 3.7	ug/l	3.7	12	10		8260	cps	/ 7/18/2000
Dibromochloromethane	< 4.1	ug/l	4.1	13	10		8260	cps	/ 7/18/2000

APL INC.
8222 W. Calumet Rd., Milwaukee, WI 53223
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dibromomethane	< 4.6	ug/l	4.6	15	10		8260	cps	/ 7/18/2000
Dichlorodifluoromethane	< 2.7	ug/l	2.7	8.6	10		8260	cps	/ 7/18/2000
Ethylbenzene	< 2.5	ug/l	2.5	8.0	10		8260	cps	/ 7/18/2000
Hexachlorobutadiene	< 4.2	ug/l	4.2	13	10		8260	cps	/ 7/18/2000
Isopropyl Ether	< 3.0	ug/l	3.0	9.5	10		8260	cps	/ 7/18/2000
Isopropylbenzene	< 3.3	ug/l	3.3	10	10		8260	cps	/ 7/18/2000
m&p-xylene	< 5.3	ug/l	5.3	17	10		8260	cps	/ 7/18/2000
Methyl-t-butyl ether	< 3.9	ug/l	3.9	12	10		8260	cps	/ 7/18/2000
Methylene chloride	< 3.0	ug/l	3.0	9.5	10		8260	cps	/ 7/18/2000
n-Butylbenzene	< 3.6	ug/l	3.6	11	10		8260	cps	/ 7/18/2000
n-Propylbenzene	< 2.8	ug/l	2.8	8.9	10		8260	cps	/ 7/18/2000
Naphthalene	< 7.5	ug/l	7.5	24	10		8260	cps	/ 7/18/2000
o-xylene	< 2.5	ug/l	2.5	8.0	10		8260	cps	/ 7/18/2000
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.9	10		8260	cps	/ 7/18/2000
sec-Butylbenzene	< 3.4	ug/l	3.4	11	10		8260	cps	/ 7/18/2000
Styrene	< 2.5	ug/l	2.5	8.0	10		8260	cps	/ 7/18/2000
tert-Butylbenzene	< 3.0	ug/l	3.0	9.5	10		8260	cps	/ 7/18/2000
Tetrachloroethene	5.5	ug/l	3.1	9.9	10	J	8260	cps	/ 7/18/2000
Toluene	< 2.9	ug/l	2.9	9.2	10		8260	cps	/ 7/18/2000
trans-1,2-Dichloroethene	17	ug/l	2.5	8.0	10		8260	cps	/ 7/18/2000
trans-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.3	10		8260	cps	/ 7/18/2000
Trichloroethene	557	ug/l	3.4	11	10		8260	cps	/ 7/18/2000
Trichlorofluoromethane	< 2.4	ug/l	2.4	7.6	10		8260	cps	/ 7/18/2000
Vinyl chloride	< 2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/18/2000

Sample Number: 20352
Client ID: 000717WA07P

QC Prep Batch Number: 994716
Collection: 7/17/2000 Time: 08:43
Sample Description:

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/18/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	cps	/ 7/18/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	cps	/ 7/18/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/18/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	cps	/ 7/18/2000
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	cps	/ 7/18/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	cps	/ 7/18/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/18/2000
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/18/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/18/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/18/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/18/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/18/2000
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	cps	/ 7/18/2000
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	cps	/ 7/18/2000
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/18/2000
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	cps	/ 7/18/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	cps	/ 7/18/2000
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	cps	/ 7/18/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	cps	/ 7/18/2000
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/18/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/18/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	cps	/ 7/18/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	cps	/ 7/18/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/18/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/18/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	cps	/ 7/18/2000
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/18/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	cps	/ 7/18/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/18/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	cps	/ 7/18/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	cps	/ 7/18/2000
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/18/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/18/2000
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/18/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/18/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
Trichloroethene	0.48	ug/l	0.34	1.1	1	J	8260	cps	/ 7/18/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/18/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/18/2000

Sample Number: 20353 QC Prep Batch Number: 994716 Collection: 7/17/2000 Time: 08:45
Client ID: 000717WA08P Sample Description:

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/18/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	cps	/ 7/18/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	cps	/ 7/18/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/18/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	cps	/ 7/18/2000
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	cps	/ 7/18/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	cps	/ 7/18/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/18/2000
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/18/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/18/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/18/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/18/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/18/2000
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	cps	/ 7/18/2000
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	cps	/ 7/18/2000
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/18/2000
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	cps	/ 7/18/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	cps	/ 7/18/2000
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	cps	/ 7/18/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	cps	/ 7/18/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Chloroform	0.31	**ug/l**	0.24	0.76	1	J	8260	cps	/ 7/18/2000
Chloromethane	< 0.49	**ug/l**	0.49	1.6	1		8260	cps	/ 7/18/2000
cis-1,2-Dichloroethene	< 0.27	**ug/l**	0.27	0.86	1		8260	cps	/ 7/18/2000
cis-1,3-Dichloropropene	< 0.37	**ug/l**	0.37	1.2	1		8260	cps	/ 7/18/2000
Dibromochloromethane	< 0.41	**ug/l**	0.41	1.3	1		8260	cps	/ 7/18/2000
Dibromomethane	< 0.46	**ug/l**	0.46	1.5	1		8260	cps	/ 7/18/2000
Dichlorodifluoromethane	< 0.27	**ug/l**	0.27	0.86	1		8260	cps	/ 7/18/2000
Ethylbenzene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
Hexachlorobutadiene	< 0.42	**ug/l**	0.42	1.3	1		8260	cps	/ 7/18/2000
Isopropyl Ether	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
Isopropylbenzene	< 0.33	**ug/l**	0.33	1.0	1		8260	cps	/ 7/18/2000
m&p-xylene	< 0.53	**ug/l**	0.53	1.7	1		8260	cps	/ 7/18/2000
Methyl-t-butyl ether	< 0.39	**ug/l**	0.39	1.2	1		8260	cps	/ 7/18/2000
Methylene chloride	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
n-Butylbenzene	< 0.36	**ug/l**	0.36	1.1	1		8260	cps	/ 7/18/2000
n-Propylbenzene	< 0.28	**ug/l**	0.28	0.89	1		8260	cps	/ 7/18/2000
Naphthalene	< 0.75	**ug/l**	0.75	2.4	1		8260	cps	/ 7/18/2000
o-xylene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
p-Isopropyltoluene	< 0.31	**ug/l**	0.31	0.99	1		8260	cps	/ 7/18/2000
sec-Butylbenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	cps	/ 7/18/2000
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	cps	/ 7/18/2000
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	cps	/ 7/18/2000
Trichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	cps	/ 7/18/2000
Vinyl chloride	< 0.21	**ug/l**	0.21	0.67	1		8260	cps	/ 7/18/2000

Sample Number: 20354 QC Prep Batch Number: 994716 Collection: 7/17/2000 Time:
Client ID: Trip Blank Sample Description:

1,1,1,2-Tetrachloroethane	< 0.22	**ug/l**	0.22	0.70	1	8260	cps	/ 7/18/2000
1,1,1-Trichloroethane	< 0.31	**ug/l**	0.31	0.99	1	8260	cps	/ 7/18/2000
1,1,2,2-Tetrachloroethane	< 0.44	**ug/l**	0.44	1.4	1	8260	cps	/ 7/18/2000
1,1,2-Trichloroethane	< 0.44	**ug/l**	0.44	1.4	1	8260	cps	/ 7/18/2000
1,1-Dichloroethane	< 0.32	**ug/l**	0.32	1.0	1	8260	cps	/ 7/18/2000
1,1-Dichloroethene	< 0.34	**ug/l**	0.34	1.1	1	8260	cps	/ 7/18/2000
1,1-Dichloropropene	< 0.43	**ug/l**	0.43	1.4	1	8260	cps	/ 7/18/2000
1,2,3-Trichlorobenzene	< 0.50	**ug/l**	0.50	1.6	1	8260	cps	/ 7/18/2000
1,2,3-Trichloropropane	< 0.51	**ug/l**	0.51	1.6	1	8260	cps	/ 7/18/2000
1,2,4-Trichlorobenzene	< 0.47	**ug/l**	0.47	1.5	1	8260	cps	/ 7/18/2000
1,2,4-Trimethylbenzene	< 0.30	**ug/l**	0.30	0.95	1	8260	cps	/ 7/18/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/18/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/18/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/18/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/18/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/18/2000
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	cps	/ 7/18/2000
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	cps	/ 7/18/2000
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/18/2000
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	cps	/ 7/18/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	cps	/ 7/18/2000
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	cps	/ 7/18/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/18/2000
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	cps	/ 7/18/2000
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/18/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/18/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	cps	/ 7/18/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	cps	/ 7/18/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/18/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/18/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/18/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	cps	/ 7/18/2000
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/18/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	cps	/ 7/18/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	cps	/ 7/18/2000
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/18/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/18/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	cps	/ 7/18/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	cps	/ 7/18/2000
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/18/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	cps	/ 7/18/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/18/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	cps	/ 7/18/2000
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	cps	/ 7/18/2000
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	cps	/ 7/18/2000
Trichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	cps	/ 7/18/2000
Vinyl chloride	< 0.21	**ug/l**	0.21	0.67	1		8260	cps	/ 7/18/2000

Sample Number: 20355
Client ID: 000717WA09P

QC Prep Batch Number: 994716

Collection: 7/17/2000 Time: 08:50
Sample Description:

1,1,1,2-Tetrachloroethane	< 0.22	**ug/l**	0.22	0.70	1		8260	cps	/ 7/18/2000
1,1,1-Trichloroethane	< 0.31	**ug/l**	0.31	0.99	1		8260	cps	/ 7/18/2000
1,1,2,2-Tetrachloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	cps	/ 7/18/2000
1,1,2-Trichloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	cps	/ 7/18/2000
1,1-Dichloroethane	< 0.32	**ug/l**	0.32	1.0	1		8260	cps	/ 7/18/2000
1,1-Dichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
1,1-Dichloropropene	< 0.43	**ug/l**	0.43	1.4	1		8260	cps	/ 7/18/2000
1,2,3-Trichlorobenzene	< 0.50	**ug/l**	0.50	1.6	1		8260	cps	/ 7/18/2000
1,2,3-Trichloropropane	< 0.51	**ug/l**	0.51	1.6	1		8260	cps	/ 7/18/2000
1,2,4-Trichlorobenzene	< 0.47	**ug/l**	0.47	1.5	1		8260	cps	/ 7/18/2000
1,2,4-Trimethylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
1,2-Dibromoethane	< 0.46	**ug/l**	0.46	1.5	1		8260	cps	/ 7/18/2000
1,2-Dichlorobenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloroethane	< 0.35	**ug/l**	0.35	1.1	1		8260	cps	/ 7/18/2000
1,2-Dichloropropane	< 0.32	**ug/l**	0.32	1.0	1		8260	cps	/ 7/18/2000
1,3,5-Trimethylbenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
1,3-Dichlorobenzene	< 0.26	**ug/l**	0.26	0.83	1		8260	cps	/ 7/18/2000
1,3-Dichloropropane	< 0.39	**ug/l**	0.39	1.2	1		8260	cps	/ 7/18/2000
1,4-Dichlorobenzene	< 0.36	**ug/l**	0.36	1.1	1		8260	cps	/ 7/18/2000
12Dibromo-3-chloropropan	< 0.33	**ug/l**	0.33	1.0	1		8260	cps	/ 7/18/2000
2,2-Dichloropropane	< 0.27	**ug/l**	0.27	0.86	1		8260	cps	/ 7/18/2000
2-Butanone (MEK)	< 1.4	**ug/l**	1.4	4.4	1		8260	cps	/ 7/18/2000
2-Chloroethyl Vinyl Ether	< 0.70	**ug/l**	0.70	2.2	1		8260	cps	/ 7/18/2000
2-Chlorotoluene	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
4-Chlorotoluene	< 0.26	**ug/l**	0.26	0.83	1		8260	cps	/ 7/18/2000
4-Methyl-2-Pentanone	< 0.80	**ug/l**	0.80	2.5	1		8260	cps	/ 7/18/2000
Acetone	< 1.6	**ug/l**	1.6	4.9	1		8260	cps	/ 7/18/2000
Benzene	< 0.27	**ug/l**	0.27	0.86	1		8260	cps	/ 7/18/2000
Bromobenzene	< 0.31	**ug/l**	0.31	0.99	1		8260	cps	/ 7/18/2000
Bromochloromethane	< 0.37	**ug/l**	0.37	1.2	1		8260	cps	/ 7/18/2000
Bromodichloromethane	< 0.38	**ug/l**	0.38	1.2	1		8260	cps	/ 7/18/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000515**
DATE REPORTED: 31-Jul-00
DATE RECEIVED: 17-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME:

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Bromoform	< 0.39	**ug/l**	0.39	1.2	1		8260	cps	/ 7/18/2000
Bromomethane	< 0.65	**ug/l**	0.65	2.1	1		8260	cps	/ 7/18/2000
Carbon tetrachloride	< 0.27	**ug/l**	0.27	0.86	1		8260	cps	/ 7/18/2000
Chlorobenzene	< 0.26	**ug/l**	0.26	0.83	1		8260	cps	/ 7/18/2000
Chloroethane	< 0.64	**ug/l**	0.64	2.0	1		8260	cps	/ 7/18/2000
Chloroform	0.28	**ug/l**	0.24	0.76	1	J	8260	cps	/ 7/18/2000
Chloromethane	< 0.49	**ug/l**	0.49	1.6	1		8260	cps	/ 7/18/2000
cis-1,2-Dichloroethene	< 0.27	**ug/l**	0.27	0.86	1		8260	cps	/ 7/18/2000
cis-1,3-Dichloropropene	< 0.37	**ug/l**	0.37	1.2	1		8260	cps	/ 7/18/2000
Dibromochloromethane	< 0.41	**ug/l**	0.41	1.3	1		8260	cps	/ 7/18/2000
Dibromomethane	< 0.46	**ug/l**	0.46	1.5	1		8260	cps	/ 7/18/2000
Dichlorodifluoromethane	< 0.27	**ug/l**	0.27	0.86	1		8260	cps	/ 7/18/2000
Ethylbenzene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
Hexachlorobutadiene	< 0.42	**ug/l**	0.42	1.3	1		8260	cps	/ 7/18/2000
Isopropyl Ether	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
Isopropylbenzene	< 0.33	**ug/l**	0.33	1.0	1		8260	cps	/ 7/18/2000
m&p-xylene	< 0.53	**ug/l**	0.53	1.7	1		8260	cps	/ 7/18/2000
Methyl-t-butyl ether	< 0.39	**ug/l**	0.39	1.2	1		8260	cps	/ 7/18/2000
Methylene chloride	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
n-Butylbenzene	< 0.36	**ug/l**	0.36	1.1	1		8260	cps	/ 7/18/2000
n-Propylbenzene	< 0.28	**ug/l**	0.28	0.89	1		8260	cps	/ 7/18/2000
Naphthalene	< 0.75	**ug/l**	0.75	2.4	1		8260	cps	/ 7/18/2000
o-xylene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
p-Isopropyltoluene	< 0.31	**ug/l**	0.31	0.99	1		8260	cps	/ 7/18/2000
sec-Butylbenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	cps	/ 7/18/2000
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	cps	/ 7/18/2000
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	cps	/ 7/18/2000
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	cps	/ 7/18/2000
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	cps	/ 7/18/2000
Trichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	cps	/ 7/18/2000
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	cps	/ 7/18/2000
Vinyl chloride	< 0.21	**ug/l**	0.21	0.67	1		8260	cps	/ 7/18/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20000515**
DATE REPORTED:	31-Jul-00
DATE RECEIVED:	17-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	Weekly Samplin
PROJECT NAME:	

James Chang
Oconomowoc Groundwater Treatment Plant
2572 Oak St.
Ashippun , WI 53003

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal

Approved By: _____ **Date:** 7/31/00

James Chang, Ph.D. , Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study "e" = Estimate value, over calibration range .
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

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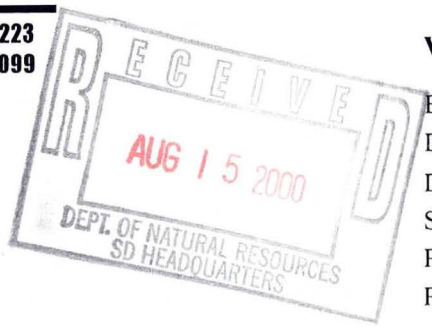
ORGANIC REPORT



WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Sample Number: **20511** QC Prep Batch Number: 994760 *Sample analyzed within 2 Day(s) from collection.*

Client ID: **000724WA01P** Sample Description: *Collection: 7/24/2000 Time: 09:05*

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1,1,2-Tetrachloroethane	<2.2	ug/l	2.2	7	ns	10		8260	cps	7/26/2000
1,1,1-Trichloroethane	165	ug/l	3.1	9.9	40	10		8260	cps	7/26/2000
1,1,2,2-Tetrachloroethane	<4.4	ug/l	4.4	14	0.02	10		8260	cps	7/26/2000
1,1,2-Trichloroethane	<4.4	ug/l	4.4	14	0.5	10		8260	cps	7/26/2000
1,1-Dichloroethane	32	ug/l	3.2	10	85	10		8260	cps	7/26/2000
1,1-Dichloroethene	<3.4	ug/l	3.4	11	0.7	10		8260	cps	7/26/2000
1,1-Dichloropropene	<4.3	ug/l	4.3	14	ns	10		8260	cps	7/26/2000
1,2,3-Trichlorobenzene	<5	ug/l	5	16	ns	10		8260	cps	7/26/2000
1,2,3-Trichloropropane	<5.1	ug/l	5.1	16	ns	10		8260	cps	7/26/2000
1,2,4-Trichlorobenzene	<4.7	ug/l	4.7	15	14	10		8260	cps	7/26/2000
1,2,4-Trimethylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	7/26/2000
1,2-Dibromoethane	<4.6	ug/l	4.6	15	0.005	10		8260	cps	7/26/2000
1,2-Dichlorobenzene	<3.4	ug/l	3.4	11	60	10		8260	cps	7/26/2000
1,2-Dichloroethane	<3.5	ug/l	3.5	11	0.5	10		8260	cps	7/26/2000
1,2-Dichloropropane	<3.2	ug/l	3.2	10	0.5	10		8260	cps	7/26/2000
1,3,5-Trimethylbenzene	<3.4	ug/l	3.4	11	ns	10		8260	cps	7/26/2000
1,3-Dichlorobenzene	<2.6	ug/l	2.6	8.3	125	10		8260	cps	7/26/2000
1,3-Dichloropropane	<3.9	ug/l	3.9	12	ns	10		8260	cps	7/26/2000
1,4-Dichlorobenzene	<3.6	ug/l	3.6	11	15	10		8260	cps	7/26/2000
12Dibromo-3-chloropropan	<3.3	ug/l	3.3	10	0.02	10		8260	cps	7/26/2000
2,2-Dichloropropane	<2.7	ug/l	2.7	8.6	ns	10		8260	cps	7/26/2000
2-Butanone (MEK)	<14	ug/l	14	44	90	10		8260	cps	7/26/2000
2-Chloroethyl Vinyl Ether	<7	ug/l	7	22	ns	10		8260	cps	7/26/2000
2-Chlorotoluene	<3	ug/l	3	9.5	ns	10		8260	cps	7/26/2000
4-Chlorotoluene	<2.6	ug/l	2.6	8.3	ns	10		8260	cps	7/26/2000
4-Methyl-2-Pentanone	<8	ug/l	8	25	50	10		8260	cps	7/26/2000
Acetone	<16	ug/l	16	49	200	10		8260	cps	7/26/2000
Benzene	<2.7	ug/l	2.7	8.6	0.5	10		8260	cps	7/26/2000
Bromobenzene	<3.1	ug/l	3.1	9.9	ns	10		8260	cps	7/26/2000
Bromochloromethane	<3.7	ug/l	3.7	12	ns	10		8260	cps	7/26/2000
Bromodichloromethane	<3.8	ug/l	3.8	12	0.06	10		8260	cps	7/26/2000
Bromoform	<3.9	ug/l	3.9	12	0.44	10		8260	cps	7/26/2000
Bromomethane	<6.5	ug/l	6.5	21	1	10		8260	cps	7/26/2000
Carbon tetrachloride	<2.7	ug/l	2.7	8.6	0.5	10		8260	cps	7/26/2000
Chlorobenzene	<2.6	ug/l	2.6	8.3	20	10		8260	cps	7/26/2000
Chloroethane	<6.4	ug/l	6.4	20	80	10		8260	cps	7/26/2000
Chloroform	<2.4	ug/l	2.4	7.6	0.6	10		8260	cps	7/26/2000
Chloromethane	<4.9	ug/l	4.9	16	0.3	10		8260	cps	7/26/2000
cis-1,2-Dichloroethene	50	ug/l	2.7	8.6	7	10		8260	cps	7/26/2000
cis-1,3-Dichloropropene	<3.7	ug/l	3.7	12	0.02	10		8260	cps	7/26/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	<4.1	ug/l	4.1	13	6	10		8260	cps	7/26/2000
Dibromomethane	<4.6	ug/l	4.6	15	ns	10		8260	cps	7/26/2000
Dichlorodifluoromethane	<2.7	ug/l	2.7	8.6	200	10		8260	cps	7/26/2000
Ethylbenzene	<2.5	ug/l	2.5	8	140	10		8260	cps	7/26/2000
Hexachlorobutadiene	<4.2	ug/l	4.2	13	ns	10		8260	cps	7/26/2000
Isopropyl Ether	<3	ug/l	3	9.5	ns	10		8260	cps	7/26/2000
Isopropylbenzene	<3.3	ug/l	3.3	10	ns	10		8260	cps	7/26/2000
m&p-xylene	<5.3	ug/l	5.3	17	124	10		8260	cps	7/26/2000
Methyl-t-butyl ether	<3.9	ug/l	3.9	12	12	10		8260	cps	7/26/2000
Methylene chloride	<3	ug/l	3	9.5	0.5	10		8260	cps	7/26/2000
n-Butylbenzene	<3.6	ug/l	3.6	11	ns	10		8260	cps	7/26/2000
n-Propylbenzene	<2.8	ug/l	2.8	8.9	ns	10		8260	cps	7/26/2000
Naphthalene	<7.5	ug/l	7.5	24	8	10		8260	cps	7/26/2000
o-xylene	<2.5	ug/l	2.5	8	124	10		8260	cps	7/26/2000
p-Isopropyltoluene	<3.1	ug/l	3.1	9.9	ns	10		8260	cps	7/26/2000
sec-Butylbenzene	<3.4	ug/l	3.4	11	ns	10		8260	cps	7/26/2000
Styrene	<2.5	ug/l	2.5	8	10	10		8260	cps	7/26/2000
tert-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	7/26/2000
Tetrachloroethene	6.1	ug/l	3.1	9.9	0.5	10	*J*	8260	cps	7/26/2000
Toluene	<2.9	ug/l	2.9	9.2	68.6	10		8260	cps	7/26/2000
trans-1,2-Dichloroethene	21	ug/l	2.5	8	20	10		8260	cps	7/26/2000
trans-1,3-Dichloropropene	<2.6	ug/l	2.6	8.3	0.02	10		8260	cps	7/26/2000
Trichloroethene	524	ug/l	3.4	11	0.5	10		8260	cps	7/26/2000
Trichlorofluoromethane	<2.4	ug/l	2.4	7.6	ns	10		8260	cps	7/26/2000
Vinyl chloride	<2.1	ug/l	2.1	6.7	0.02	10		8260	cps	7/26/2000

Sample Number: **20515** QC Prep Batch Number: 994760 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **000724WA07P** Sample Description: *Collection: 7/24/2000 Time: 08:52*

1,1,1,2-Tetrachloroethane	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/26/2000
1,1,1-Trichloroethane	<0.31	ug/l	0.31	0.99	40	1		8260	cps	7/26/2000
1,1,2,2-Tetrachloroethane	<0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/26/2000
1,1,2-Trichloroethane	<0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/26/2000
1,1-Dichloroethane	<0.32	ug/l	0.32	1	85	1		8260	cps	7/26/2000
1,1-Dichloroethene	<0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/26/2000
1,1-Dichloropropene	<0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/26/2000
1,2,3-Trichlorobenzene	<0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/26/2000
1,2,3-Trichloropropane	<0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/26/2000
1,2,4-Trichlorobenzene	<0.47	ug/l	0.47	1.5	14	1		8260	cps	7/26/2000
1,2,4-Trimethylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
1,2-Dibromoethane	<0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/26/2000
1,2-Dichlorobenzene	<0.34	ug/l	0.34	1.1	60	1		8260	cps	7/26/2000
1,2-Dichloroethane	<0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/26/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	<0.32	ug/l	0.32	1	0.5	1		8260	cps	7/26/2000
1,3,5-Trimethylbenzene	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
1,3-Dichlorobenzene	<0.26	ug/l	0.26	0.83	125	1		8260	cps	7/26/2000
1,3-Dichloropropane	<0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/26/2000
1,4-Dichlorobenzene	<0.36	ug/l	0.36	1.1	15	1		8260	cps	7/26/2000
12Dibromo-3-chloropropan	<0.33	ug/l	0.33	1	0.02	1		8260	cps	7/26/2000
2,2-Dichloropropane	<0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/26/2000
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	7/26/2000
2-Chloroethyl Vinyl Ether	<0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/26/2000
2-Chlorotoluene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
4-Chlorotoluene	<0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/26/2000
4-Methyl-2-Pentanone	<0.8	ug/l	0.8	2.5	50	1		8260	cps	7/26/2000
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	7/26/2000
Benzene	<0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Bromobenzene	<0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
Bromochloromethane	<0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/26/2000
Bromodichloromethane	<0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/26/2000
Bromoform	<0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/26/2000
Bromomethane	<0.65	ug/l	0.65	2.1	1	1		8260	cps	7/26/2000
Carbon tetrachloride	<0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Chlorobenzene	<0.26	ug/l	0.26	0.83	20	1		8260	cps	7/26/2000
Chloroethane	<0.64	ug/l	0.64	2	80	1		8260	cps	7/26/2000
Chloroform	<0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/26/2000
Chloromethane	<0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/26/2000
cis-1,2-Dichloroethene	<0.27	ug/l	0.27	0.86	7	1		8260	cps	7/26/2000
cis-1,3-Dichloropropene	<0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/26/2000
Dibromochloromethane	<0.41	ug/l	0.41	1.3	6	1		8260	cps	7/26/2000
Dibromomethane	<0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/26/2000
Dichlorodifluoromethane	<0.27	ug/l	0.27	0.86	200	1		8260	cps	7/26/2000
Ethylbenzene	<0.25	ug/l	0.25	0.8	140	1		8260	cps	7/26/2000
Hexachlorobutadiene	<0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/26/2000
Isopropyl Ether	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Isopropylbenzene	<0.33	ug/l	0.33	1	ns	1		8260	cps	7/26/2000
m&p-xylene	<0.53	ug/l	0.53	1.7	124	1		8260	cps	7/26/2000
Methyl-t-butyl ether	<0.39	ug/l	0.39	1.2	12	1		8260	cps	7/26/2000
Methylene chloride	<0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/26/2000
n-Butylbenzene	<0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/26/2000
n-Propylbenzene	<0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/26/2000
Naphthalene	<0.75	ug/l	0.75	2.4	8	1		8260	cps	7/26/2000
o-xylene	<0.25	ug/l	0.25	0.8	124	1		8260	cps	7/26/2000
p-Isopropyltoluene	<0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
sec-Butylbenzene	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
Styrene	<0.25	ug/l	0.25	0.8	10	1		8260	cps	7/26/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/26/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/26/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/26/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/26/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/26/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/26/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/26/2000

Sample Number: **20516** QC Prep Batch Number: 994760 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **000724WA08P** Sample Description: *Collection: 7/24/2000 Time: 08:50*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/26/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/26/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/26/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/26/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/26/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/26/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/26/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/26/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/26/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/26/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/26/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/26/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/26/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/26/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/26/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/26/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/26/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/26/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/26/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/26/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/26/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/26/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/26/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/26/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/26/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/26/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/26/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/26/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/26/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/26/2000
Chloroform	0.34	ug/l	0.24	0.76	0.6	1	J	8260	cps	7/26/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/26/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/26/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/26/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/26/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/26/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/26/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/26/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/26/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/26/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/26/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/26/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/26/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/26/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/26/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/26/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/26/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/26/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/26/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/26/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/26/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/26/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/26/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/26/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/26/2000

Sample Number: **20517** QC Prep Batch Number: 994760 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **Trip Blk** Sample Description: *Collection: 7/24/2000 Time:*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1	8260	cps	7/26/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1	8260	cps	7/26/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1	8260	cps	7/26/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1	8260	cps	7/26/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1	8260	cps	7/26/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/26/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/26/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/26/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/26/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/26/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/26/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/26/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/26/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/26/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/26/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/26/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/26/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/26/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/26/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/26/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/26/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/26/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/26/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/26/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/26/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/26/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/26/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/26/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/26/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/26/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/26/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/26/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/26/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/26/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/26/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/26/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/26/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/26/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/26/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/26/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/26/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/26/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/26/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/26/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/26/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/26/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/26/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/26/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/26/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/26/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/26/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/26/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/26/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/26/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/26/2000

Sample Number: **20518** QC Prep Batch Number: 994760 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **000724WA09P** Sample Description: *Collection: 7/24/2000 Time: 08:45*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/26/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/26/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/26/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/26/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/26/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/26/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/26/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/26/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/26/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/26/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/26/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/26/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/26/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/26/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/26/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/26/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/26/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/26/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/26/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/26/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 20000541
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/26/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/26/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/26/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/26/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/26/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/26/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/26/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/26/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/26/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/26/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/26/2000
Chloroform	0.28	ug/l	0.24	0.76	0.6	1	J	8260	cps	7/26/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/26/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/26/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/26/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/26/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/26/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/26/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/26/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/26/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/26/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/26/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/26/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/26/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/26/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/26/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/26/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/26/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/26/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/26/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/26/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/26/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/26/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/26/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/26/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/26/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/26/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/26/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/26/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000541**
DATE REPORTED: 29-Jul-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal

Approved By: _____ **Date:** 8/9/0

James Chang, Ph.D. , Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range .*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 20000541
DATE REPORTED: 08-Aug-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Nova Sample Number: 20510
Client ID: **000724WA09R**
Collection: 7/24/2000 Time: 09:35
Sample Description:

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<5.6	ug/l	RJ	5.6	18	206.2	tm	7/25/2000	994751	
Barium - ICAP	0.02	mg/l	J RJ	0.007	0.02	200.7	tm	7/25/2000	994761	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	tm	8/3/2000	994803	
Chromium, Total - ICAP	<0.008	mg/l	RJ	0.008	0.03	200.7	tm	7/25/2000	994761	
Copper- ICAP	0.01	mg/l	J RJ	0.006	0.02	200.7	tm	7/25/2000	994761	
Iron - ICAP	<0.081	mg/l	RJ	0.081	0.26	200.7	tm	7/25/2000	994761	
Lead - Furnace AA	<1.5	ug/l	RJ	1.5	4.8	239.2	tm	8/3/2000	994811	
Manganese - ICAP	<0.006	mg/l	RJ	0.006	0.02	200.7	tm	7/25/2000	994761	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	tm	8/2/2000	994799	
Nickel - ICAP	0.01	mg/l	J RJ	0.011	0.03	200.7	tm	7/25/2000	994761	
Selenium - Furnace AA	<4.8	ug/l	RJ	4.8	15	270.2	tm	7/25/100	994753	
Silver - ICAP	<0.004	mg/l	RJ	0.004	0.01	200.7	tm	7/25/2000	994761	
Thallium - Furnace AA	<1.7	ug/l	RJ	1.7	5.4	279.2	tm	7/26/2000	994797	
Zinc - ICAP	<0.014	mg/l	RJ	0.014	0.04	200.7	tm	7/25/2000	994761	

Nova Sample Number: 20511
Client ID: **000724WA01P**
Collection: 7/24/2000 Time: 09:05
Sample Description:

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<5.6	ug/l	RJ	5.6	18	206.2	tm	7/25/2000	994751	
Barium - ICAP	0.11	mg/l	RJ	0.007	0.02	200.7	tm	7/25/2000	994761	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	tm	8/3/2000	994803	
Chromium, Total - ICAP	<0.008	mg/l	RJ	0.008	0.03	200.7	tm	7/25/2000	994761	
Copper- ICAP	<0.006	mg/l	RJ	0.006	0.02	200.7	tm	7/25/2000	994761	
Iron - ICAP	<0.081	mg/l	RJ	0.081	0.26	200.7	tm	7/25/2000	994761	
Lead - Furnace AA	<1.5	ug/l	RJ	1.5	4.8	239.2	tm	8/3/2000	994811	
Manganese - ICAP	0.17	mg/l	RJ	0.006	0.02	200.7	tm	7/25/2000	994761	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	tm	8/2/2000	994799	
Nickel - ICAP	0.02	mg/l	J RJ	0.011	0.03	200.7	tm	7/25/2000	994761	
Selenium - Furnace AA	<4.8	ug/l	RJ	4.8	15	270.2	tm	7/25/100	994753	
Silver - ICAP	<0.004	mg/l	RJ	0.004	0.01	200.7	tm	7/25/2000	994761	
Thallium - Furnace AA	<1.7	ug/l	RJ	1.7	5.4	279.2	tm	7/26/2000	994797	
Zinc - ICAP	0.02	mg/l	J RJ	0.014	0.04	200.7	tm	7/25/2000	994761	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 20000541
DATE REPORTED: 08-Aug-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee, WI 53223

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Chromium, Hexavalent	**<0.0042**	**mg/l**		0.004	0.01	SM 3500D	12805	7/26/2000	*994773*	
Cyanide, Amenable	**<0.0077**	**mg/l**		0.008	0.02	335.2	12805	7/28/2000	*994775*	
Cyanide, Total	**<0.0077**	**mg/l**		0.008	0.02	335.2	12805	7/28/2000	*994774*	
pH (Field)	**7.4**	**s.u.**	#			150.1	tn	7/31/2000	*994768*	

Nova Sample Number: 20512
Client ID: **000724WA02P**
Collection: 7/24/2000 Time: 08:57
Sample Description:

pH (Field)	**9.4**	**s.u.**	#			150.1	tn	7/31/2000	*994768*	

Nova Sample Number: 20513
Client ID: **000724WA03P**
Collection: 7/24/2000 Time: 08:59
Sample Description:

pH (Field)	**11**	**s.u.**	#			150.1	tn	7/31/2000	*994768*	

Nova Sample Number: 20514
Client ID: **000724WA05P**
Collection: 7/24/2000 Time: 08:54
Sample Description:

pH (Field)	**7.6**	**s.u.**	#			150.1	tn	7/31/2000	*994768*	

Nova Sample Number: 20518
Client ID: **000724WA09P**
Collection: 7/24/2000 Time: 08:45
Sample Description:

Chromium, Hexavalent	**<0.0042**	**mg/l**		0.004	0.01	SM 3500D	12805	7/26/2000	*994773*	
Cyanide, Amenable	**<0.0077**	**mg/l**		0.008	0.02	335.2	12805	7/28/2000	*994775*	
Cyanide, Total	**<0.0077**	**mg/l**		0.008	0.02	335.2	12805	7/28/2000	*994774*	
pH (Field)	**7.8**	**s.u.**	#			150.1	tn	7/31/2000	*994768*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20000541**
DATE REPORTED: 08-Aug-00
DATE RECEIVED: 25-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee, WI 53223

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments

Approved By: _____ **Date:** 8/8/00
James Chang, Ph.D., Lab Director

RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"J" = Results between LOD and LOQ* *"#" = no LOD or LOQ required.*
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000490**
DATE REPORTED: 12-Jul-00
DATE RECEIVED: 05-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Sample Number: **20260** QC Prep Batch Number: 994612 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **000703WA01P** Sample Description: *Collection: 7/3/2000 Time: 11:00*

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1,1,2-Tetrachloroethane	< 2.2	ug/l	2.2	7	ns	10		8260	cps	7/5/2000
1,1,1-Trichloroethane	165	ug/l	3.1	9.9	40	10		8260	cps	7/5/2000
1,1,2,2-Tetrachloroethane	< 4.4	ug/l	4.4	14	0.02	10		8260	cps	7/5/2000
1,1,2-Trichloroethane	< 4.4	ug/l	4.4	14	0.5	10		8260	cps	7/5/2000
1,1-Dichloroethane	29	ug/l	3.2	10	85	10		8260	cps	7/5/2000
1,1-Dichloroethene	12	ug/l	3.4	11	0.7	10		8260	cps	7/5/2000
1,1-Dichloropropene	< 4.3	ug/l	4.3	14	ns	10		8260	cps	7/5/2000
1,2,3-Trichlorobenzene	< 5	ug/l	5	16	ns	10		8260	cps	7/5/2000
1,2,3-Trichloropropane	< 5.1	ug/l	5.1	16	ns	10		8260	cps	7/5/2000
1,2,4-Trichlorobenzene	< 4.7	ug/l	4.7	15	14	10		8260	cps	7/5/2000
1,2,4-Trimethylbenzene	< 3	ug/l	3	9.5	ns	10		8260	cps	7/5/2000
1,2-Dibromoethane	< 4.6	ug/l	4.6	15	0.005	10		8260	cps	7/5/2000
1,2-Dichlorobenzene	< 3.4	ug/l	3.4	11	60	10		8260	cps	7/5/2000
1,2-Dichloroethane	< 3.5	ug/l	3.5	11	0.5	10		8260	cps	7/5/2000
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	0.5	10		8260	cps	7/5/2000
1,3,5-Trimethylbenzene	< 3.4	ug/l	3.4	11	ns	10		8260	cps	7/5/2000
1,3-Dichlorobenzene	< 2.6	ug/l	2.6	8.3	125	10		8260	cps	7/5/2000
1,3-Dichloropropane	< 3.9	ug/l	3.9	12	ns	10		8260	cps	7/5/2000
1,4-Dichlorobenzene	< 3.6	ug/l	3.6	11	15	10		8260	cps	7/5/2000
12Dibromo-3-chloropropan	< 3.3	ug/l	3.3	10	0.02	10		8260	cps	7/5/2000
2,2-Dichloropropane	< 2.7	ug/l	2.7	8.6	ns	10		8260	cps	7/5/2000
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	cps	7/5/2000
2-Chloroethyl Vinyl Ether	< 7	ug/l	7	22	ns	10		8260	cps	7/5/2000
2-Chlorotoluene	< 3	ug/l	3	9.5	ns	10		8260	cps	7/5/2000
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	ns	10		8260	cps	7/5/2000
4-Methyl-2-Pentanone	< 8	ug/l	8	25	50	10		8260	cps	7/5/2000
Acetone	< 16	ug/l	16	49	200	10		8260	cps	7/5/2000
Benzene	< 2.7	ug/l	2.7	8.6	0.5	10		8260	cps	7/5/2000
Bromobenzene	< 3.1	ug/l	3.1	9.9	ns	10		8260	cps	7/5/2000
Bromochloromethane	< 3.7	ug/l	3.7	12	ns	10		8260	cps	7/5/2000
Bromodichloromethane	< 3.8	ug/l	3.8	12	0.06	10		8260	cps	7/5/2000
Bromoform	< 3.9	ug/l	3.9	12	0.44	10		8260	cps	7/5/2000
Bromomethane	< 6.5	ug/l	6.5	21	1	10		8260	cps	7/5/2000
Carbon tetrachloride	< 2.7	ug/l	2.7	8.6	0.5	10		8260	cps	7/5/2000
Chlorobenzene	< 2.6	ug/l	2.6	8.3	20	10		8260	cps	7/5/2000
Chloroethane	< 6.4	ug/l	6.4	20	80	10		8260	cps	7/5/2000
Chloroform	< 2.4	ug/l	2.4	7.6	0.6	10		8260	cps	7/5/2000
Chloromethane	< 4.9	ug/l	4.9	16	0.3	10		8260	cps	7/5/2000
cis-1,2-Dichloroethene	44	ug/l	2.7	8.6	7	10		8260	cps	7/5/2000
cis-1,3-Dichloropropene	< 3.7	ug/l	3.7	12	0.02	10		8260	cps	7/5/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20000490**
DATE REPORTED:	12-Jul-00
DATE RECEIVED:	05-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	<4.1	ug/l	4.1	13	6	10		8260	cps	7/5/2000
Dibromomethane	<4.6	ug/l	4.6	15	ns	10		8260	cps	7/5/2000
Dichlorodifluoromethane	<2.7	ug/l	2.7	8.6	200	10		8260	cps	7/5/2000
Ethylbenzene	<2.5	ug/l	2.5	8	140	10		8260	cps	7/5/2000
Hexachlorobutadiene	<4.2	ug/l	4.2	13	ns	10		8260	cps	7/5/2000
Isopropyl Ether	<3	ug/l	3	9.5	ns	10		8260	cps	7/5/2000
Isopropylbenzene	<3.3	ug/l	3.3	10	ns	10		8260	cps	7/5/2000
m&p-xylene	<5.3	ug/l	5.3	17	124	10		8260	cps	7/5/2000
Methyl-t-butyl ether	<3.9	ug/l	3.9	12	12	10		8260	cps	7/5/2000
Methylene chloride	<3	ug/l	3	9.5	0.5	10		8260	cps	7/5/2000
n-Butylbenzene	<3.6	ug/l	3.6	11	ns	10		8260	cps	7/5/2000
n-Propylbenzene	<2.8	ug/l	2.8	8.9	ns	10		8260	cps	7/5/2000
Naphthalene	<7.5	ug/l	7.5	24	8	10		8260	cps	7/5/2000
o-xylene	<2.5	ug/l	2.5	8	124	10		8260	cps	7/5/2000
p-Isopropyltoluene	<3.1	ug/l	3.1	9.9	ns	10		8260	cps	7/5/2000
sec-Butylbenzene	<3.4	ug/l	3.4	11	ns	10		8260	cps	7/5/2000
Styrene	<2.5	ug/l	2.5	8	10	10		8260	cps	7/5/2000
tert-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	7/5/2000
Tetrachloroethene	5.6	ug/l	3.1	9.9	0.5	10	J	8260	cps	7/5/2000
Toluene	<2.9	ug/l	2.9	9.2	68.6	10		8260	cps	7/5/2000
trans-1,2-Dichloroethene	14	ug/l	2.5	8	20	10		8260	cps	7/5/2000
trans-1,3-Dichloropropene	<2.6	ug/l	2.6	8.3	0.02	10		8260	cps	7/5/2000
Trichloroethene	529	ug/l	3.4	11	0.5	10		8260	cps	7/5/2000
Trichlorofluoromethane	<2.4	ug/l	2.4	7.6	ns	10		8260	cps	7/5/2000
Vinyl chloride	<2.1	ug/l	2.1	6.7	0.02	10		8260	cps	7/5/2000

Sample Number: **20265** QC Prep Batch Number: 994612 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **000703WA07P** Sample Description: *Collection: 7/3/2000 Time: 11:35*

1,1,1,2-Tetrachloroethane	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/5/2000
1,1,1-Trichloroethane	<0.31	ug/l	0.31	0.99	40	1		8260	cps	7/5/2000
1,1,2,2-Tetrachloroethane	<0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/5/2000
1,1,2-Trichloroethane	<0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/5/2000
1,1-Dichloroethane	<0.32	ug/l	0.32	1	85	1		8260	cps	7/5/2000
1,1-Dichloroethene	<0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/5/2000
1,1-Dichloropropene	<0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/5/2000
1,2,3-Trichlorobenzene	<0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/5/2000
1,2,3-Trichloropropane	<0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/5/2000
1,2,4-Trichlorobenzene	<0.47	ug/l	0.47	1.5	14	1		8260	cps	7/5/2000
1,2,4-Trimethylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
1,2-Dibromoethane	<0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/5/2000
1,2-Dichlorobenzene	<0.34	ug/l	0.34	1.1	60	1		8260	cps	7/5/2000
1,2-Dichloroethane	<0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/5/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20000490**
DATE REPORTED:	12-Jul-00
DATE RECEIVED:	05-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Monthly Sampling

Dr. James Chang
APL Environmental
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Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/5/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/5/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/5/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/5/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/5/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/5/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/5/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/5/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/5/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/5/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/5/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/5/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/5/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/5/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/5/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/5/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/5/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/5/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/5/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/5/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/5/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/5/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/5/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/5/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/5/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/5/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/5/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/5/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/5/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/5/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/5/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/5/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/5/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/5/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/5/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000490**
DATE REPORTED: 12-Jul-00
DATE RECEIVED: 05-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Monthly Sampling

Dr. James Chang
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8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/5/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/5/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/5/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/5/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/5/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/5/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/5/2000

Sample Number: **20266** QC Prep Batch Number: 994612 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **000703WA08P** Sample Description: *Collection: 7/3/2000 Time: 11:40*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/5/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/5/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/5/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/5/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/5/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/5/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/5/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/5/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/5/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/5/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/5/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/5/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/5/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/5/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/5/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/5/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/5/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/5/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/5/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/5/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/5/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/5/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/5/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/5/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/5/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/5/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20000490**
DATE REPORTED:	12-Jul-00
DATE RECEIVED:	05-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/5/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/5/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/5/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/5/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/5/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/5/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/5/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/5/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/5/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/5/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/5/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/5/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/5/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/5/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/5/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/5/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/5/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/5/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/5/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/5/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/5/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/5/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/5/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/5/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/5/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/5/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/5/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/5/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/5/2000

Sample Number: **20267** QC Prep Batch Number: 994612 *Sample analyzed within 2 Day(s) from collection.*
Client ID: **Trip Blank** Sample Description: *Collection: 7/3/2000 Time:*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/5/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/5/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/5/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/5/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/5/2000

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000490**
DATE REPORTED: 12-Jul-00
DATE RECEIVED: 05-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/5/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/5/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/5/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/5/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/5/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/5/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/5/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/5/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/5/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/5/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/5/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/5/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/5/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/5/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/5/2000
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/5/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/5/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/5/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/5/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/5/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/5/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/5/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/5/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/5/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/5/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/5/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/5/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/5/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/5/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/5/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/5/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/5/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/5/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/5/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/5/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/5/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20000490**
DATE REPORTED: 12-Jul-00
DATE RECEIVED: 05-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/5/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/5/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/5/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/5/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/5/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/5/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/5/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/5/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/5/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/5/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/5/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/5/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/5/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/5/2000

Sample Number: 20268 QC Prep Batch Number: 994612 *Sample analyzed within 2 Day(s) from collection.*
Client ID: 000703WA09P Sample Description: *Collection: 7/3/2000 Time: 11:45*

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/5/2000
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	40	1		8260	cps	7/5/2000
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	0.02	1		8260	cps	7/5/2000
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	0.5	1		8260	cps	7/5/2000
1,1-Dichloroethane	< 0.32	ug/l	0.32	1	85	1		8260	cps	7/5/2000
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	0.7	1		8260	cps	7/5/2000
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	ns	1		8260	cps	7/5/2000
1,2,3-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	ns	1		8260	cps	7/5/2000
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	ns	1		8260	cps	7/5/2000
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	14	1		8260	cps	7/5/2000
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	0.005	1		8260	cps	7/5/2000
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	60	1		8260	cps	7/5/2000
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	0.5	1		8260	cps	7/5/2000
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	0.5	1		8260	cps	7/5/2000
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	125	1		8260	cps	7/5/2000
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	ns	1		8260	cps	7/5/2000
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	15	1		8260	cps	7/5/2000
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1	0.02	1		8260	cps	7/5/2000
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	ns	1		8260	cps	7/5/2000
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/5/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20000490**
DATE REPORTED:	12-Jul-00
DATE RECEIVED:	05-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
2-Chloroethyl Vinyl Ether	< 0.7	ug/l	0.7	2.2	ns	1		8260	cps	7/5/2000
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	ns	1		8260	cps	7/5/2000
4-Methyl-2-Pentanone	< 0.8	ug/l	0.8	2.5	50	1		8260	cps	7/5/2000
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/5/2000
Benzene	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Bromobenzene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
Bromochloromethane	< 0.37	ug/l	0.37	1.2	ns	1		8260	cps	7/5/2000
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	0.06	1		8260	cps	7/5/2000
Bromoform	< 0.39	ug/l	0.39	1.2	0.44	1		8260	cps	7/5/2000
Bromomethane	< 0.65	ug/l	0.65	2.1	1	1		8260	cps	7/5/2000
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	0.5	1		8260	cps	7/5/2000
Chlorobenzene	< 0.26	ug/l	0.26	0.83	20	1		8260	cps	7/5/2000
Chloroethane	< 0.64	ug/l	0.64	2	80	1		8260	cps	7/5/2000
Chloroform	< 0.24	ug/l	0.24	0.76	0.6	1		8260	cps	7/5/2000
Chloromethane	< 0.49	ug/l	0.49	1.6	0.3	1		8260	cps	7/5/2000
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	7	1		8260	cps	7/5/2000
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	0.02	1		8260	cps	7/5/2000
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	6	1		8260	cps	7/5/2000
Dibromomethane	< 0.46	ug/l	0.46	1.5	ns	1		8260	cps	7/5/2000
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	200	1		8260	cps	7/5/2000
Ethylbenzene	< 0.25	ug/l	0.25	0.8	140	1		8260	cps	7/5/2000
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	ns	1		8260	cps	7/5/2000
Isopropyl Ether	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Isopropylbenzene	< 0.33	ug/l	0.33	1	ns	1		8260	cps	7/5/2000
m&p-xylene	< 0.53	ug/l	0.53	1.7	124	1		8260	cps	7/5/2000
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	12	1		8260	cps	7/5/2000
Methylene chloride	< 0.3	ug/l	0.3	0.95	0.5	1		8260	cps	7/5/2000
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	ns	1		8260	cps	7/5/2000
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	ns	1		8260	cps	7/5/2000
Naphthalene	< 0.75	ug/l	0.75	2.4	8	1		8260	cps	7/5/2000
o-xylene	< 0.25	ug/l	0.25	0.8	124	1		8260	cps	7/5/2000
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	ns	1		8260	cps	7/5/2000
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/5/2000
Styrene	< 0.25	ug/l	0.25	0.8	10	1		8260	cps	7/5/2000
tert-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/5/2000
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	0.5	1		8260	cps	7/5/2000
Toluene	< 0.29	ug/l	0.29	0.92	68.6	1		8260	cps	7/5/2000
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	20	1		8260	cps	7/5/2000
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	0.02	1		8260	cps	7/5/2000
Trichloroethene	< 0.34	ug/l	0.34	1.1	0.5	1		8260	cps	7/5/2000
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	ns	1		8260	cps	7/5/2000
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/5/2000

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20000490**
DATE REPORTED:	12-Jul-00
DATE RECEIVED:	05-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal

Approved By: _____ **Date:** 7/14/0

James Chang, Ph.D. , Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"e" = Estimate value, over calibration range .*
LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
RQ : Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER	**20000490**
DATE REPORTED:	14-Jul-00
DATE RECEIVED:	05-Jul-00
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	OGTP
PROJECT NAME:	Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments

Approved By: _____ **Date:** 7/14/00
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*
TTR *Result expressed as total and total recoverable.*

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"J" = Results between LOD and LOQ* *"#" = no LOD or LOQ required.*
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 20000490
DATE REPORTED: 14-Jul-00
DATE RECEIVED: 05-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Nova Sample Number: 20260
Client ID: **000703WA01P**
Collection: 7/3/2000 Time: 11:00
Sample Description:

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	<5.6	ug/l	RJ	5.6	18	206.2	tm	7/7/2000	994616	
Barium - ICAP	0.11	mg/l	RJ	0.007	0.02	200.7	tm	7/6/2000	994604	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	tm	7/6/2000	994617	
Chromium, Total - ICAP	<0.008	mg/l	RJ	0.008	0.03	200.7	tm	7/6/2000	994604	
Copper- ICAP	<0.006	mg/l	RJ	0.006	0.02	200.7	tm	7/6/2000	994604	
Iron - ICAP	1.1	mg/l	RJ	0.081	0.26	200.7	tm	7/6/2000	994604	
Lead - Furnace AA	<1.5	ug/l	RJ	1.5	4.8	239.2	tm	7/7/2000	994614	
Manganese - ICAP	0.18	mg/l	RJ	0.006	0.02	200.7	tm	7/6/2000	994604	
Mercury CV	0.0003	mg/l	J RJ	0.0002	0.0006	245.1	tm	7/12/2000	994644	
Nickel - ICAP	0.03	mg/l	J RJ	0.011	0.03	200.7	tm	7/6/2000	994604	
Selenium - Furnace AA	7.1	ug/l	J RJ	4.8	15	270.2	tm	7/6/2000	994621	
Silver - ICAP	<0.004	mg/l	RJ	0.004	0.01	200.7	tm	7/6/2000	994604	
Thallium - Furnace AA	<1.7	ug/l	RJ	1.7	5.4	279.2	TM	7/6/2000	994619	
Zinc - ICAP	<0.014	mg/l	RJ	0.014	0.04	200.7	tm	7/6/2000	994604	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500D	12805	7/13/2000	994651	
COD. Total	13	mg/l	J	7.3	23	410.4-CT	12805	7/13/2000	994667	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	dmd	7/6/2000	994599	
Cyanide, Total	0.008	mg/l	J	0.006	0.02	335.2	dmd	7/6/2000	994600	
pH (water)	7.2	s.u.	#			150.1	tn	7/5/2000	994596	
Solids, Total Suspended	2	mg/l		0.5	1.6	SM 2540D	tm	7/7/2000	994611	

Nova Sample Number: 20261
Client ID: **000703WA09R**
Collection: 7/3/2000 Time: 11:50
Sample Description:

Arsenic - Furnace AA	<5.6	ug/l	RJ	5.6	18	206.2	tm	7/7/2000	994616	
Barium - ICAP	0.01	mg/l	J RJ	0.007	0.02	200.7	tm	7/6/2000	994604	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	tm	7/6/2000	994617	
Chromium, Total - ICAP	<0.008	mg/l	RJ	0.008	0.03	200.7	tm	7/6/2000	994604	
Copper- ICAP	0.007	mg/l	J RJ	0.006	0.02	200.7	tm	7/6/2000	994604	
Iron - ICAP	0.09	mg/l	J RJ	0.081	0.26	200.7	tm	7/6/2000	994604	
Lead - Furnace AA	<1.5	ug/l	RJ	1.5	4.8	239.2	tm	7/7/2000	994614	
Manganese - ICAP	0.007	mg/l	J RJ	0.006	0.02	200.7	tm	7/6/2000	994604	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 20000490
DATE REPORTED: 14-Jul-00
DATE RECEIVED: 05-Jul-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Monthly Sampling

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	tm	7/12/2000	*994644*	
Nickel - ICAP	**<0.011**	**mg/l**	**RJ**	0.011	0.03	200.7	tm	7/6/2000	*994604*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	tm	7/6/2000	*994621*	
Silver - ICAP	**<0.004**	**mg/l**	**RJ**	0.004	0.01	200.7	tm	7/6/2000	*994604*	
Thallium - Furnace AA	**<1.7**	**ug/l**	**RJ**	1.7	5.4	279.2	TM	7/6/2000	*994619*	
Zinc - ICAP	**0.02**	**mg/l**	***J*** **RJ**	0.014	0.04	200.7	tm	7/6/2000	*994604*	
Nitrate + Nitrite Nitrogen	**2.3**	**mg/l**		0.03	0.10	353.3	tm	7/11/2000	*994634*	
Nitrogen, Ammonia	**<0.1**	**mg/l**		1.25	4.0	350.1	12805	7/6/2000	*994668*	
Phosphorus, Total	**<0.1**	**mg/l**		0.033	0.10	365.2	12805	7/12/2000	*994669*	
Nova Sample Number: 20262								Collection: 7/3/2000		Time: 11:10
Client ID: **000703WA02P**								Sample Description:		
pH (water)	**9.4**	**s.u.**	**#**			150.1	tn	7/5/2000	*994596*	
Nova Sample Number: 20263								Collection: 7/3/2000		Time: 11:20
Client ID: **000703WA03P**								Sample Description:		
pH (water)	**11**	**s.u.**	**#**			150.1	tn	7/5/2000	*994596*	
Nova Sample Number: 20264								Collection: 7/3/2000		Time: 11:30
Client ID: **000703WA05P**								Sample Description:		
pH (water)	**7.7**	**s.u.**	**#**			150.1	tn	7/5/2000	*994596*	
Nova Sample Number: 20268								Collection: 7/3/2000		Time: 11:45
Client ID: **000703WA09P**								Sample Description:		
Chromium, Hexavalent	**<0.0042**	**mg/l**		0.004	0.01	SM 3500D	12805	7/13/2000	*994651*	
COD. Total	**<7.3**	**mg/l**		7.3	23	410.4-CT	12805	7/13/2000	*994667*	
Cyanide, Amenable	**<0.006**	**mg/l**		0.006	0.02	335.2	dmd	7/6/2000	*994599*	
Cyanide, Total	**0.02**	**mg/l**		0.006	0.02	335.2	dmd	7/6/2000	*994600*	
pH (water)	**7.6**	**s.u.**	**#**			150.1	tn	7/5/2000	*994596*	
Solids, Total Suspended	**2**	**mg/l**		0.5	1.6	SM 2540D	tm	7/7/2000	*994611*	

APL INC.

INORGANIC REPORT

Dr. James Chang
APL Environmental
8222 W. Calumet Road
Milwaukee , WI 53223

WDNR# 241340550

INVOICE NUMBER **20000560**
DATE REPORTED: 08-Aug-00
DATE RECEIVED: 02-Aug-00
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 20625										
Client ID: **000802WA01P**								Collection: 8/2/2000	Time: 15:10	
								Sample Description:		
Cyanide, Total	**0.02**	**mg/l**		0.006	0.02	335.2	dmd	8/7/2000	*994823*	
Nova Sample Number: 20626										
Client ID: **000802WA09P**								Collection: 8/2/2000	Time: 15:12	
								Sample Description:		
Cyanide, Total	**0.02**	**mg/l**		0.006	0.02	335.2	dmd	8/7/2000	*994823*	

Approved By: _____ **Date:** 8/8/00
James Chang, Ph.D., Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B *"J" = Results between LOD and LOQ* *"#" = no LOD or LOQ required.*
LOQ = 10 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study
LOD = 3.143 (S) x Dilution Facor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
DNR Analytical Detection Limit Guidance, April 1995.