



August 15, 1999



Mr. Paul Kozol
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53590

Re: Monthly Monitoring Report for the Oconomowoc Groundwater Treatment Facility

Dear Mr. Kozol:

Attached is the Monthly Monitoring Report for July, 1999 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, Plant Superintendent
APL, Inc.

cc: Steven Brossart, USACE, St. Paul District
Steve Padovani, USEPA
James Chang, APL, Inc.
David Brodzinski, WDNR, Horicon

**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, 1999

1.0 Introduction

This report summarizes the monthly effluent monitoring results for the Oconomowoc Electroplating Groundwater Treatment Plant (OEGTP) for July, 1999. 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 Scott Harrison, Tony Goodman, and Dave Dugan 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.

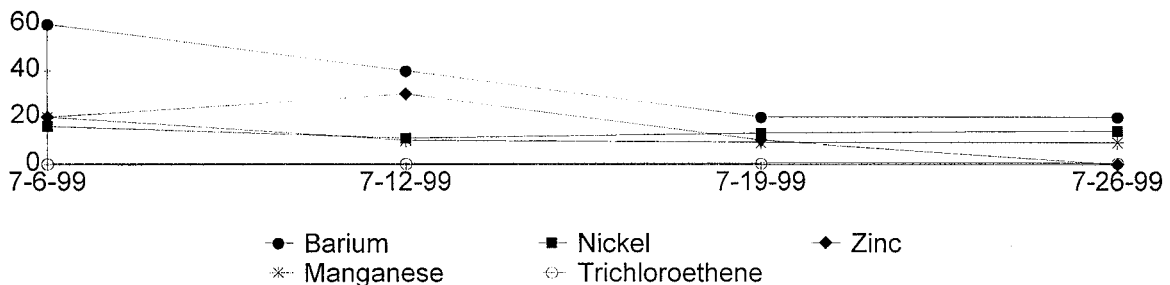
1.3 Effluent Monitoring

Weekly monitoring was conducted on July 6, 12, 19, and 26. The weekly samples for July were tested by APL, Inc. The results of the effluent monitoring tests for the samples taken on July showed no exceedences of the WDNR effluent discharge permit except for TCE on the July 12, 19, and 26 sampling. The possible cause of the high levels of TCE is discussed in Section 2.0.

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



1.5 Monitoring Well Sampling

Another round of Monitoring Well sampling was conducted on July 13 and 14. The Monitoring Well sampling is conducted on a quarterly basis. The results of the Monitoring Wells' analyses are enclosed with this report.

2.0 Plant Permit Exceedences

On July 8, the new media was installed into the Tertiary Filtration System (TF-600), several effluent backwashes to remove the fines were conducted, and it was put in line on July 9.

The July 12 sampling showed a result of 0.54ug/l of TCE, the July 19 sampling showed a result of 0.59ug/l of TCE, and the July 26 sampling showed a result of 0.66ug/l of TCE. The effluent limit for the treatment plant on TCE is 0.5ug/l. Paul Kozol, WDNR, authorized continual treatment plant operations until the TCE level reached 1.5ug/l. When this level is reached, the Carbon in the Granulated Activated Carbon Vessels (GAC-650/651) will be changed out.

The high level of TCE on the July 12, 19, and 26 samplings may have been due to the Carbon in the Granulated Activated Carbon Vessels (GAC-650/651) becoming loaded caused from the prolonged by-passing of the TF-600. A possible reason for the GAC's becoming loaded sooner than anticipated could be that after pre-neutralization and deactivation of the treated water before the tertiary filter allows more polymer to travel through the TF-600, reach the Carbon, coating the particles, and possibly deterring the adsorption properties of the Carbon. This was not a concern prior to the modification because very little polymer went beyond TF-600 due to the media binding and returning the treated water to the EQT-100.

3.0 Treatment Plant Shut Downs

The Treatment Plant was shut down four times for a total of 12 hours in July, 1999. The shut downs were due to the Installation of Process Modifications, Metals Package Sludge Removal, and High Effluent pH. Table 1 shows the summary of the plant down time for the month of July, 1999.

Table 1 - Plant Down Time Summary

Date(s)	Number Hours Shut Down	Reason
7/15	0.5	Recalibrated and Reprogrammed FC-100
7/18	3	Low EQT-100 Level
7/19	5.5	Low EQT-100 Level
7/30	3	Metals Package Sludge Removal
TOTAL	12	

3.1 Shut Down Due To Recalibrate and Reprogram FC-100

On July 9, the Motor Operated Valve (MOV-113) that controls the flow through the treatment system could not be controlled by its Flow Controller (FC-100). The flow through the treatment system had to be adjusted by the MOV-113 override buttons located on the valve itself and locked into position by the Control Switch (CS-113) to allow the treatment plant to continue to operate. The USACE was notified and authorized Pieper Electric to inspect and trouble-shoot the situation. Pieper Electric could not arrive until July 15, so the plant was operated in the locked flow mode. On July 15, the Pieper Electric technician recalibrated the FC-100 and discovered that its program was set in reverse. The Pieper Electric technician reprogrammed the FC-100 and the MOV-113 responded normally, again. The Pieper Electric technician believed that an electrical surge caused by lightning caused the problem. The total down time was 0.5 hours.

3.2 Shut Downs Due To Low Equalization Tank Level

On July 18, the treatment plant was discovered shut down upon the arrival of the Sunday operator. The reason for the shut down was that the EQT-100 level had dropped <25% and the treatment plant shut down automatically. The backwash rate from the Tertiary Filtration System was over-estimated and the flow through the treatment plant was greater than the flow into the EQT-100. The Sunday operator did an effluent backwash of the TF-600, pumped supernate to the Press Filtrate Holding Tank (PFT-840), and added well water to the floor trench sump to speed up the filling of EQT-100 to >55%. The total down time was 3 hours. When the treatment plant started back up, the treatment plant flow increased (by itself) from 23 gpm to 34 gpm. On July 19, the treatment plant shut down, again, due to the EQT-100 level had dropped <25%. This occurred during operator's off time and the total down time was 5.5 hours. The treatment plant flow was decreased to match the flow into EQT-100.

3.3 Shut Down Due To Metals Package Sludge Removal

On July 30, at 8A..M., the treatment system was shut down to remove sludge/hardness buildup from the Rapid Mix Tank (RMT-301) and the Flocculation Tank (FT-311). The Rapid Tank Mixer (RTM-302) and Flocculation Tank Mixer (FT-312) were shut off and their breakers were opened. The Sodium Hydroxide Pump (SHP-361) and Polymer Feed Pump (PMP-353) were isolated. FT-311 was drained to the Sludge Holding Tank (ST-820) using the Equalization Tank Solids Pump (ESP-120). The walls, mixer, and floor was pressure washed and a vessel entry was conducted to removed the sludge/hardness buildup. RMT-301 was drained to the ST-820 using the Thickened Sludge Pump (TSP-411). The walls, mixer, and floor was pressure washed and drained to ST-820 using TSP-411. The treatment system was restarted and the mixers and chemical feed pumps were activated after the tanks were filled. The total down time was 3 hours.

4.0 Summary

Groundwater Treatment Plant effluent monitoring was conducted on July 6, 12, 19, and 26 of 1999. On July 13 and 14, the Monitoring Wells were sampled. The laboratory results of these samples show that all contaminants listed in the Requirements of the *Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96)* comply with the permit except for TCE on July 12, 19, and 26. Paul Kozol, WDNR, authorized continual treatment plant operations until the TCE level reached 1.5ug/l. See Chart 1, Section 1.4 for *Important Indicator Parameters*.

During the month of July, 1999, the plant was shut down four times for a total of 12 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, 1999.

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
Weekly Sampling Results				Date: 7-6-99		
Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7.3	11	N/A	N/A	NT	Monitor
TSS	ND	NT	NT	NT	ND	Monitor
Arsenic	15/ND	NT	NT	NT	ND	5
Barium	120/120	NT	NT	NT	60	400
Cadmium	0.84/1	NT	NT	NT	ND	0.5
Cadmium Total Recoverable	ND/ND	NT	NT	NT	ND	Monitor
Chromium +6	ND/ND	NT	NT	NT	ND	Monitor
Chromium Total	ND/ND	NT	NT	NT	ND	10
Copper	ND/ND	NT	NT	NT	ND	Monitor
Iron	1100/1100	NT	NT	NT	430	Monitor
Lead	ND/ND	NT	NT	NT	ND	1.5
Manganese	210/220	NT	NT	NT	20	Monitor
Mercury	ND/ND	NT	NT	NT	ND	0.2
Nickel	50/50	NT	NT	NT	16	20
Selenium	ND/ND	NT	NT	NT	ND	10
Silver	ND/ND	NT	NT	NT	ND	10
Thallium	ND/ND	NT	NT	NT	ND	0.4
Zinc	10/ND	NT	NT	NT	20	Monitor
Cyanide	ND/ND	NT	NT	NT	ND	40
Cyanide Free	ND/ND	NT	NT	NT	ND	Monitor
1,1-Dichloroethane	24/23	NT	ND	NT	ND	85
1,2-Dichloroethane	ND/ND	NT	ND	NT	ND	0.5
1,1-Dichloroethene	16/16	NT	ND	NT	ND	0.7
1,2-Dichloroethene Cis	57/58	NT	0.33	NT	ND	7
1,2-Dichloroethene Trans	21/19	NT	ND	NT	ND	20
Ethylbenzene	ND/ND	NT	ND	NT	ND	140
Methylene Chloride	ND/ND	NT	ND	NT	ND	0.5
Tetrachloroethene	12/ND	NT	ND	NT	ND	0.5
Toluene	ND/ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	273/267	NT	0.37	NT	ND	40
1,1,2-Trichloroethane	ND/ND	NT	ND	NT	ND	0.5
TCE	701/697	NT	1.8	NT	0.47	0.5
Vinyl Chloride	ND/ND	NT	ND	NT	ND	0.2
Xylene Total	ND/ND	NT	ND	NT	ND	124
COD	40	NT	NT	NT	13	Monitor
Phosphorus total	NT	NT	NT	NT	ND	Monitor
Nitrate + Nitrite	NT	NT	NT	NT	0.04	Monitor
Ammonia Nitrogen	NT	NT	NT	NT	0.15	Monitor

mg/l

mg/l

mg/l

mg/l

mg/l

Influent Samples were duplicated.

OCONOMOWOC GROUNDWATER TREATMENT PLANT

Weekly Sampling Results

Date: 7-12-99

Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7	11	N/A	N/A	NT	Monitor
TSS	NT	NT	NT	NT	NT	Monitor
Arsenic	ND	NT	NT	NT	ND	5
Barium	130	NT	NT	NT	40	400
Cadmium	ND	NT	NT	NT	ND	0.5
Cadmium Total	ND	NT	NT	NT	ND	Monitor
Recoverable Chromium +6	ND	NT	NT	NT	ND	Monitor
Chromium Total	ND	NT	NT	NT	ND	10
Copper	ND	NT	NT	NT	ND	Monitor
Iron	1100	NT	NT	NT	200	Monitor
Lead	ND	NT	NT	NT	ND	1.5
Manganese	220	NT	NT	NT	10	Monitor
Mercury	ND	NT	NT	NT	ND	0.2
Nickel	50	NT	NT	NT	11	20
Selenium	8.1	NT	NT	NT	ND	10
Silver	ND	NT	NT	NT	ND	10
Thallium	14	NT	NT	NT	ND	0.4
Zinc	10	NT	NT	NT	30	Monitor
Cyanide	ND	NT	NT	NT	ND	40
Cyanide Free	ND	NT	NT	NT	ND	Monitor
1,1-Dichloroethane	29	NT	ND	NT	ND	85
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5
1,1-Dichloroethene	23	NT	ND	NT	ND	0.7
1,2-Dichloroethene Cis	64	NT	0.32	NT	ND	7
1,2-Dichloroethene Trans	23	NT	ND	NT	ND	20
Ethylbenzene	ND	NT	ND	NT	ND	140
Methylene Chloride	ND	NT	ND	NT	ND	0.5
Tetrachloroethene	9.5	NT	ND	NT	ND	0.5
Toluene	ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	425	NT	0.58	NT	ND	40
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5
TCE	911	NT	2.4	NT	0.54	0.5
Vinyl Chloride	ND	NT	ND	NT	ND	0.2
Xylene Total	ND	NT	ND	NT	ND	124
COD	NT	NT	NT	NT	NT	Monitor
Phosphorus total	NT	NT	NT	NT	NT	Monitor
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor

mg/l

mg/l

mg/l

mg/l

mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT

Weekly Sampling Results

Date: 7-19-99

Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7.1	11	N/A	N/A	7.8	Monitor
TSS	NT	NT	NT	NT	NT	Monitor
Arsenic	14	NT	NT	NT	ND	5
Barium	110	NT	NT	NT	20	400
Cadmium	ND	NT	NT	NT	ND	0.5
Cadmium Total	ND	NT	NT	NT	ND	Monitor
Recoverable Chromium +6	ND	NT	NT	NT	ND	Monitor
Chromium Total	ND	NT	NT	NT	ND	10
Copper	ND	NT	NT	NT	ND	Monitor
Iron	1400	NT	NT	NT	260	Monitor
Lead	ND	NT	NT	NT	ND	1.5
Manganese	170	NT	NT	NT	9	Monitor
Mercury	ND	NT	NT	NT	ND	0.2
Nickel	40	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	20	NT	NT	NT	10	Monitor
Cyanide	ND	NT	NT	NT	ND	40
Cyanide Free	ND	NT	NT	NT	ND	Monitor
1,1-Dichloroethane	27	NT	ND	NT	ND	85
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5
1,1-Dichloroethene	20	NT	ND	NT	ND	0.7
1,2-Dichloroethene Cis	65	NT	0.3	NT	ND	7
1,2-Dichloroethene Trans	25	NT	ND	NT	ND	20
Ethylbenzene	ND	NT	ND	NT	ND	140
Methylene Chloride	ND	NT	ND	NT	ND	0.5
Tetrachloroethene	15	NT	ND	NT	ND	0.5
Toluene	ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	350	NT	0.4	NT	ND	40
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5
TCE	930	NT	1.8	NT	0.59	0.5
Vinyl Chloride	ND	NT	ND	NT	ND	0.2
Xylene Total	ND	NT	ND	NT	ND	124
COD	NT	NT	NT	NT	NT	Monitor
Phosphorus total	NT	NT	NT	NT	NT	Monitor
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor

mg/l

mg/l

mg/l

mg/l

Paul Kozol, WDNR, authorized continual plant operations until TCE level reaches 1.5ug/l.

OCONOMOWOC GROUNDWATER TREATMENT PLANT

Weekly Sampling Results

Date: 7-26-99

Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7.1	11	N/A	N/A	7.9	Monitor
TSS	NT	NT	NT	NT	NT	Monitor
Arsenic	ND	NT	NT	NT	ND	5
Barium	90	NT	NT	NT	20	400
Cadmium	ND	NT	NT	NT	ND	0.5
Cadmium Total	ND	NT	NT	NT	ND	Monitor
Recoverable Chromium +6	ND	NT	NT	NT	ND	Monitor
Chromium Total	ND	NT	NT	NT	ND	10
Copper	ND	NT	NT	NT	ND	Monitor
Iron	750	NT	NT	NT	220	Monitor
Lead	ND	NT	NT	NT	ND	1.5
Manganese	160	NT	NT	NT	9	Monitor
Mercury	ND	NT	NT	NT	ND	0.2
Nickel	39	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	ND	NT	NT	NT	ND	Monitor
Cyanide	ND	NT	NT	NT	ND	40
Cyanide Free	ND	NT	NT	NT	ND	Monitor
1,1-Dichloroethane	20	NT	ND	NT	ND	85
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5
1,1-Dichloroethene	13	NT	ND	NT	ND	0.7
1,2-Dichloroethene Cis	50	NT	0.33	NT	ND	7
1,2-Dichloroethene Trans	18	NT	ND	NT	ND	20
Ethylbenzene	ND	NT	ND	NT	ND	140
Methylene Chloride	ND	NT	ND	NT	ND	0.5
Tetrachloroethene	7.8	NT	ND	NT	ND	0.5
Toluene	ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	225	NT	0.38	NT	ND	40
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5
TCE	521	NT	1.5	NT	0.66	0.5
Vinyl Chloride	ND	NT	ND	NT	ND	0.2
Xylene Total	ND	NT	0.39	NT	0.59	124
COD	NT	NT	NT	NT	NT	Monitor
Phosphorus total	NT	NT	NT	NT	NT	Monitor
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor

mg/l

mg/l

mg/l

mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT

MONITORING WELL	(ug/l)					
	Date: 4TH QTR. 1999					
Parameter	MW02DP	MW03SP	MW05P	MW05DP	MW06P	MW11BP
pH	6.34	DRY	7.02	6.99	7.2	COVERED
Conductivity	1969	NT	1050	701	731	NT
Arsenic	36	NT	NT	ND	35	NT
Barium	50	NT	NT	70	460	NT
Cadmium	ND	NT	NT	ND	ND	NT
Cadmium Total	ND	NT	NT	ND	ND	NT
Recoverable						
Chromium +6	ND	NT	NT	ND	ND	NT
Chromium Total	ND	NT	NT	30	30	NT
Copper	ND	NT	NT	ND	40	NT
Iron	2300	NT	NT	4200	21000	NT
Lead	ND	NT	NT	ND	35	NT
Manganese	80	NT	NT	90	1600	NT
Mercury	ND	NT	NT	ND	ND	NT
Nickel	ND	NT	NT	ND	50	NT
Selenium	9.2	NT	NT	ND	ND	NT
Silver	ND	NT	NT	ND	ND	NT
Thallium	29	NT	NT	29	21	NT
Zinc	70	NT	NT	40	100	NT
Cyanide	ND	NT	NT	ND	ND	NT
Cyanide Free	ND	NT	NT	ND	ND	NT
1,1-dichloroethane	0.29	NT	NT	ND	ND	NT
1,2-dichloroethane	ND	NT	NT	2.4	ND	NT
1,1-dichloroethene	ND	NT	NT	ND	ND	NT
1,2-dichloroethene cis	0.91	NT	NT	32	ND	NT
1,2-dichloroethene trans	ND	NT	NT	ND	ND	NT
Ethylbenzene	ND	NT	NT	ND	ND	NT
Methylene Chloride	ND	NT	NT	ND	ND	NT
Tetrachloroethene	ND	NT	NT	ND	ND	NT
Toluene	ND	NT	NT	ND	ND	NT
1,1,1-trichloroethane	ND	NT	NT	ND	ND	NT
1,1,2-trichloroethane	ND	NT	NT	ND	ND	NT
TCE	0.64	NT	NT	553	ND	NT
Vinyl Chloride	ND	NT	NT	ND	ND	NT
Xylene Total	ND	NT	NT	ND	ND	NT
Temperature (C)	16.5	NT	19.9	15.2	15.2	NT

uMHOS/CM

MW05P & MW03SP Were Too Dry To Sample.

OCONOMOWOC GROUNDWATER TREATMENT PLANT

MONITORING WELL						(ug/l)
						Date: 4TH QTR. 1999
Parameter	MW12BP	MW12DP	MW13SP	MW14DP	MW15DP	MW16SP
pH	6.4	7.32	6.49	7.24	7.2	8.58
Conductivity	1089	1160	730	272.1	850	1903
Arsenic	26	ND	29	33	48	ND
Barium	130	70	40	50	40	60
Cadmium	ND	ND	ND	ND	ND	0.84
Cadmium Total	ND	ND	ND	ND	ND	ND
Recoverable						
Chromium +6	ND	5	ND	ND	ND	ND
Chromium Total	80	30	110	ND	ND	90
Copper	20	1100	ND	ND	ND	ND
Iron	4800	3200	3200	2300	280	84000
Lead	4	6.5	ND	ND	2.5	ND
Manganese	250	80	40	80	70	720
Mercury	ND	ND	ND	ND	ND	ND
Nickel	100	70	ND	ND	ND	100
Selenium	ND	ND	ND	ND	17	30
Silver	ND	ND	ND	ND	ND	ND
Thallium	7.6	17	55	11	34	8.2
Zinc	20	ND	20	70	10	200
Cyanide	ND	30	ND	ND	ND	ND
Cyanide Free	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	ND	72	ND	ND	ND	ND
1,2-dichloroethane	ND	1.2	ND	ND	ND	0.82
1,1-dichloroethene	ND	24	ND	ND	ND	ND
1,2-dichloroethene cis	ND	12	ND	ND	3.2	210
1,2-dichloroethene trans	ND	2.8	ND	ND	0.41	3.6
Ethylbenzene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	ND	118	ND	ND	ND	ND
1,1,2-trichloroethane	ND	ND	ND	ND	ND	ND
TCE	ND	3.4	0.22	ND	33	ND
Vinyl Chloride	ND	1.1	ND	ND	ND	16
Xylene Total	ND	ND	ND	ND	ND	ND
Temperature (C)	15.9	15.5	16.4	17.3	14.2	19.3

uMHOS/CM

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

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

FLOW FROM EXTRACTION WELLS

YEAR: 1999				
MONTH: JULY DAY	FE-100 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	800,998.20	19,693.50	0.020	
2	820,691.70	17,048.50	0.017	
3	837,740.20	27,391.80	0.027	
4	865,132.00	15,154.10	0.015	
5	880,286.10	22,315.20	0.022	
6	902,601.30	25,020.10	0.025	
7	927,621.40	20,955.30	0.021	
8	948,576.70	20,565.00	0.021	
9	969,141.70	15,245.10	0.015	
10	984,386.80	23,027.20	0.023	
11	1,007,414.00	19,871.00	0.020	
12	1,027,285.00	25,699.00	0.026	
13	1,052,984.00	19,770.00	0.020	
14	1,072,754.00	20,327.00	0.020	
15	1,093,081.00	19,769.00	0.020	SHUT DOWN
16	1,112,850.00	14,054.00	0.014	
17	1,126,904.00	24,227.00	0.024	
18	1,151,131.00	22,949.00	0.023	SHUT DOWN
19	1,174,080.00	20,319.00	0.020	SHUT DOWN
20	1,194,399.00	23,317.00	0.023	
21	1,217,716.00	20,514.00	0.021	
22	1,238,230.00	(1,237,782.75)	0.021	* WK. AVER. RESET
23	447.25	16,665.37	0.017	
24	17,112.62	23,902.71	0.024	
25	41,015.33	21,232.77	0.021	
26	62,248.10	27,058.13	0.027	
27	89,306.23	21,314.37	0.021	
28	110,620.60	30,200.50	0.030	
29	140,821.10	20,135.10	0.020	
30	160,956.20	16,845.00	0.017	SHUT DOWN
31	177,801.20	36,490.00	0.036	
August 01	214,291.20			
TOTAL			0.672	
AVERAGE			0.022	

FLOW FROM EQT-100

YEAR: 1999				
MONTH: JULY	FE-112 FLOW	TOTAL DAY'S	DAILY FLOW	
DAY	TOTALIZER	FLOW (GAL.)	MGD	
1	735,045.40	23,635.38	0.024	
2	758,680.78	20,838.02	0.021	
3	779,518.80	33,827.60	0.034	
4	813,346.40	18,856.50	0.019	
5	832,202.90	28,049.90	0.028	
6	860,252.80	33,076.10	0.033	
7	893,328.90	29,156.60	0.029	
8	922,485.50	27,818.10	0.028	
9	950,303.60	20,115.10	0.020	
10	970,418.70	30,470.30	0.030	
11	1,000,889.00	26,312.00	0.026	
12	1,027,201.00	36,141.00	0.036	
13	1,063,342.00	31,698.00	0.032	
14	1,095,040.00	36,497.00	0.036	
15	1,131,537.00	40,097.00	0.040	SHUT DOWN
16	1,171,634.00	27,192.00	0.027	
17	1,198,826.00	33,015.00	0.033	
18	1,231,841.00	37,256.00	0.037	SHUT DOWN
19	1,269,097.00	30,060.00	0.030	SHUT DOWN
20	1,299,157.00	33,034.00	0.033	
21	1,332,191.00	26,683.00	0.027	
22	1,358,874.00	30,541.00	0.031	
23	1,389,415.00	25,433.00	0.025	
24	1,414,848.00	34,937.00	0.035	
25	1,449,785.00	30,956.00	0.031	
26	1,480,741.00	38,164.00	0.038	
27	1,518,905.00	26,723.00	0.027	
28	1,545,628.00	42,922.00	0.043	
29	1,588,550.00	28,232.00	0.028	
30	1,616,782.00	21,604.00	0.022	SHUT DOWN
31	1,638,386.00	46,550.00	0.047	
August 01	1,684,936.00			
TOTAL			0.950	
AVERAGE			0.031	

EFFLUENT FLOW FROM PLANT

YEAR: 1999					
MONTH: JULY	NPDES STATION	TOTAL DAY'S	X2	DAILY FLOW	
DAY	TOTALIZER	FLOW (GAL.)		MGD	
1	455,701.00	11058.40	22,116.80	0.022	
2	466,759.40	10096.10	20,192.20	0.020	
3	476,855.50	14979.20	29,958.40	0.030	
4	491,834.70	8904.20	17,808.40	0.018	
5	500,738.90	13366.00	26,732.00	0.027	
6	514,104.90	15208.40	30,416.80	0.030	
7	529,313.30	13518.60	27,037.20	0.027	
8	542,831.90	9718.80	19,437.60	0.019	
9	552,550.70	9428.10	18,856.20	0.019	
10	561,978.80	12358.70	24717.40	0.025	
11	574,337.50	10604.80	21209.60	0.021	
12	584,942.30	9309.60	18619.20	0.019	
13	594,251.90	11249.50	22499.00	0.022	
14	605,501.40	10668.50	21337.00	0.021	
15	616,169.90	9879.60	19759.20	0.020	SHUT DOWN
16	626,049.50	11321.10	22642.20	0.023	
17	637,370.60	12765.10	25530.20	0.026	
18	650,135.70	13046.10	26092.20	0.026	SHUT DOWN
19	663,181.80	11953.10	23906.20	0.024	SHUT DOWN
20	675,134.90	12161.50	24323.00	0.024	
21	687,296.40	8824.90	17649.80	0.018	
22	696,121.30	10077.10	20154.20	0.020	
23	706,198.40	11544.80	23089.60	0.023	
24	717,743.20	13268.90	26537.80	0.027	
25	731,012.10	8752.80	17505.60	0.018	
26	739,764.90	14232.80	28465.60	0.028	
27	753,997.70	9439.70	18879.40	0.019	
28	763,437.40	14913.70	29827.40	0.030	
29	778,351.10	9435.00	18870.00	0.019	
30	787,786.10	8999.20	17998.40	0.018	SHUT DOWN
31	796,785.30	17247.30	34494.60	0.034	
August 01	814,032.60				
			TOTAL	0.717	
			AVERAGE	0.023	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990520
 DATE REPORTED: 23-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampli
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 15670										
Client ID: 990706WA09R										
							Collection: 7/6/99	Time:		
							Sample Description:			
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd/rf	7/12/99	991396	
Barium - ICAP	0.06	mg/l	RJ	0.002	0.006	200.7	dmd	7/14/99	991434	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd	7/7/99	991350	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd	7/14/99	991434	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Iron - ICAP	0.43	mg/l	RJ	0.078	0.25	200.7	dmd	7/14/99	991434	
Lead - Furnace AA	<1.4	ug/l		1.4	4.5	239.2	dmd/rf	7/15/99	991436	
Manganese - ICAP	0.02	mg/l	RJ	0.004	0.01	200.7	dmd	7/14/99	991434	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	7/13/99	991417	
Nickel - ICAP	16	ug/l	J RJ	10	32	200.7	dmd	7/14/99	991434	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd	7/15/99	991442	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd	7/14/99	991434	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd	7/7/99	991351	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
COD. Total	13	mg/l		3.4	11	410.4-CT	mp	7/7/99	991367	
Nitrate + Nitrite Nitrogen	0.04	mg/l	J	0.04	0.13	353.3	srh	7/22/99	991505	Preliminary Data
Nitrogen, Ammonia	0.15	mg/l	J	0.1	0.32	350.1	128053	7/9/99	991401	
Phosphorus, Total	<0.1	mg/l		0.1	0.32	365.2	128053	7/9/99	991400	
Solids, Total Suspended	<0.5	mg/l		1	3.2	SM 2540	rf	7/13/99	991420	

Nova Sample Number: 15671

Client ID: 990706WA01P

							Collection: 7/6/99	Time:		
							Sample Description:			
Arsenic - Furnace AA	15	ug/l	J RJ	9.9	31	206.2	dmd/rf	7/12/99	991396	
Barium - ICAP	0.12	mg/l	RJ	0.002	0.006	200.7	dmd	7/14/99	991434	
Cadmium - Furnace AA	0.84	ug/l	J RJ	0.7	2.2	213.2	dmd	7/7/99	991350	
Cadmium-Total Recoverable	<0.7	ug/l	TR	0.7	2.2	7131	dmd/rf	7/15/99	991439	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd	7/14/99	991434	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Iron - ICAP	1.1	mg/l	RJ	0.078	0.25	200.7	dmd	7/14/99	991434	
Lead - Furnace AA	<1.4	ug/l		1.4	4.5	239.2	dmd/rf	7/15/99	991436	
Manganese - ICAP	0.21	mg/l	RJ	0.004	0.01	200.7	dmd	7/14/99	991434	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	7/13/99	991417	



INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER 990520
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: Monthly Sampli
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nickel - ICAP	0.05	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd	7/15/99	991442	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd	7/14/99	991434	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd	7/7/99	991351	
Zinc - ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	7/7/99	991399	
COD. Total	40	mg/l		3.4	11	410.4-CT	mp	7/7/99	991367	
Cyanide, Amenable	<0.0077	mg/l		0.008	0.02	335.2	128053	7/12/99	991404	
Cyanide, Total	<0.0077	mg/l		0.008	0.02	335.2	128053	7/12/99	991402	
pH (water)	7.3	s.u.	#			150.1	ag	7/6/99	991383	
Solids, Total Suspended	<0.5	mg/l		1	3.2	SM 2540	rf	7/13/99	991420	

Nova Sample Number: 15672

Client ID: 990706WA01Q

Collection: 7/6/99 Time:
 Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd/rf	7/12/99	991396	
Barium - ICAP	0.12	mg/l	RJ	0.002	0.006	200.7	dmd	7/14/99	991434	
Cadmium - Furnace AA	1	ug/l	J RJ	0.7	2.2	213.2	dmd	7/7/99	991350	
Cadmium-Total Recoverable	<0.7	ug/l	TR	0.7	2.2	7131	dmd/rf	7/15/99	991439	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd	7/14/99	991434	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Iron - ICAP	1.1	mg/l	RJ	0.078	0.25	200.7	dmd	7/14/99	991434	
Lead - Furnace AA	<1.4	ug/l		1.4	4.5	239.2	dmd/rf	7/15/99	991436	
Manganese - ICAP	0.22	mg/l	RJ	0.004	0.01	200.7	dmd	7/14/99	991434	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	7/13/99	991417	
Nickel - ICAP	0.05	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd	7/15/99	991442	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd	7/14/99	991434	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd	7/7/99	991351	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	7/7/99	991399	
Cyanide, Amenable	<0.0077	mg/l		0.008	0.02	335.2	128053	7/12/99	991404	
Cyanide, Total	<0.0077	mg/l		0.008	0.02	335.2	128053	7/12/99	991402	




INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 990520
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: Monthly Sampli
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date	QC#	Comments
Nova Sample Number: 15673										
Client ID: 990706WA02P										
Collection: 7/6/99 Time:										
Sample Description:										
pH (water)	10	s.u.	#		150.1	ag	7/6/99	991383		
Nova Sample Number: 15674										
Client ID: 990706WA03P										
Collection: 7/6/99 Time:										
Sample Description:										
pH (water)	11	s.u.	#		150.1	ag	7/6/99	991383		
Nova Sample Number: 15675										
Client ID: 990706WA05P										
Collection: 7/6/99 Time:										
Sample Description:										
pH (water)	6.9	s.u.	#		150.1	ag	7/6/99	991383		
Nova Sample Number: 15677										
Client ID: 990706WA09P										
Collection: 7/6/99 Time:										
Sample Description:										
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	7/7/99	991399	
Cyanide, Amenable	<0.0077	mg/l		0.008	0.02	335.2	128053	7/12/99	991404	
Cyanide, Total	<0.0077	mg/l		0.008	0.02	335.2	128053	7/12/99	991402	

Approved By:  Date: 7/27/99
 James Chang, Ph.D., Lab Director

RJ Result expressed as Total.
TR Result expressed as Total Recoverable.
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 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
 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.



8222 W. Calumet Rd., Milwaukee, WI 53223
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James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
 Ashippun, WI 53003

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal	
Sample Number: 15671		QC Prep Batch Number: 991375		Sample analyzed within 1 Day(s) from collection.							
Client ID: 990706WA01P		Sample Description:					Collection: 7/6/99		Time:		
1,1,1,2-Tetrachloroethane	< 2	ug/l	2	6.4	ns	10		8260	srh	7/7/99	
1,1,1-Trichloroethane	273	ug/l	2.3	7.3	40	10		8260	srh	7/7/99	
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	0.02	10		8260	srh	7/7/99	
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	0.5	10		8260	srh	7/7/99	
1,1-Dichloroethane	24	ug/l	1.5	4.8	85	10		8260	srh	7/7/99	
1,1-Dichloroethene	16	ug/l	3.6	11	0.7	10		8260	srh	7/7/99	
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	ns	10		8260	srh	7/7/99	
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7	ns	10		8260	srh	7/7/99	
1,2,3-Trichloropropane	< 6	ug/l	6	19	ns	10		8260	srh	7/7/99	
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	14	10		8260	srh	7/7/99	
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	ns	10		8260	srh	7/7/99	
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	0.005	10		8260	srh	7/7/99	
1,2-Dichlorobenzene	< 2	ug/l	2	6.4	60	10		8260	srh	7/7/99	
1,2-Dichloroethane	< 1.9	ug/l	1.9	6	0.5	10		8260	srh	7/7/99	
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	0.5	10		8260	srh	7/7/99	
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	srh	7/7/99	
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6	125	10		8260	srh	7/7/99	
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	ns	10		8260	srh	7/7/99	
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	15	10		8260	srh	7/7/99	
1,2-Dibromo-3-chloropropane	< 5.9	ug/l	5.9	19	0.02	10		8260	srh	7/7/99	
2,2-Dichloropropane	< 4	ug/l	4	13	ns	10		8260	srh	7/7/99	
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	srh	7/7/99	
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	ns	10		8260	srh	7/7/99	
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	ns	10		8260	srh	7/7/99	
4-Chlorotoluene	< 2.5	ug/l	2.5	8	ns	10		8260	srh	7/7/99	
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	50	10		8260	srh	7/7/99	
Acetone	< 16	ug/l	16	49	200	10		8260	srh	7/7/99	
Benzene	< 1.9	ug/l	1.9	6	0.5	10		8260	srh	7/7/99	
Bromobenzene	< 1.9	ug/l	1.9	6	ns	10		8260	srh	7/7/99	
Bromochloromethane	< 3.4	ug/l	3.4	11	ns	10		8260	srh	7/7/99	
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	0.06	10		8260	srh	7/7/99	
Bromoform	< 4.7	ug/l	4.7	15	0.44	10		8260	srh	7/7/99	
Bromomethane	< 2.1	ug/l	2.1	6.7	1	10		8260	srh	7/7/99	
Carbon tetrachloride	< 2.2	ug/l	2.2	7	0.5	10		8260	srh	7/7/99	
Chlorobenzene	< 2	ug/l	2	6.4	20	10		8260	srh	7/7/99	
Chloroethane	< 12	ug/l	12	37	80	10		8260	srh	7/7/99	
Chloroform	< 2.7	ug/l	2.7	8.6	0.6	10		8260	srh	7/7/99	
Chloromethane	< 7.7	ug/l	7.7	24	0.3	10		8260	srh	7/7/99	
cis-1,2-Dichloroethene	57	ug/l	2	6.4	7	10		8260	srh	7/7/99	
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	0.02	10		8260	srh	7/7/99	



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 2.1	ug/l	2.1	6.7	6	10		8260	srh	7/7/99
Dibromomethane	< 3.5	ug/l	3.5	11	ns	10		8260	srh	7/7/99
Dichlorodifluoromethane	< 3.6	ug/l	3.6	11	200	10		8260	srh	7/7/99
Ethylbenzene	< 1.6	ug/l	1.6	5.1	140	10		8260	srh	7/7/99
Hexachlorobutadiene	< 2.2	ug/l	2.2	7	ns	10		8260	srh	7/7/99
Isopropyl Ether	< 3.2	ug/l	3.2	10	ns	10		8260	srh	7/7/99
Isopropylbenzene	< 1.6	ug/l	1.6	5.1	ns	10		8260	srh	7/7/99
m&p-xylene	< 3.6	ug/l	3.6	11	124	10		8260	srh	7/7/99
Methyl-t-butyl ether	< 2.1	ug/l	2.1	6.7	12	10		8260	srh	7/7/99
Methylene chloride	< 7.6	ug/l	7.6	24	0.5	10		8260	srh	7/7/99
n-Butylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	srh	7/7/99
n-Propylbenzene	< 2.5	ug/l	2.5	8	ns	10		8260	srh	7/7/99
Naphthalene	< 4.6	ug/l	4.6	15	8	10		8260	srh	7/7/99
o-xylene	< 1.8	ug/l	1.8	5.7	124	10		8260	srh	7/7/99
p-Isopropyltoluene	< 1.8	ug/l	1.8	5.7	ns	10		8260	srh	7/7/99
sec-Butylbenzene	< 3	ug/l	3	9.5	ns	10		8260	srh	7/7/99
Styrene	< 2.1	ug/l	2.1	6.7	10	10		8260	srh	7/7/99
tert-Butylbenzene	< 2	ug/l	2	6.4	ns	10		8260	srh	7/7/99
Tetrachloroethene	12	ug/l	2.9	9.2	0.5	10		8260	srh	7/7/99
Toluene	< 3.3	ug/l	3.3	10	68.6	10		8260	srh	7/7/99
trans-1,2-Dichloroethene	21	ug/l	1.6	5.1	20	10		8260	srh	7/7/99
trans-1,3-Dichloropropene	< 2	ug/l	2	6.4	0.02	10		8260	srh	7/7/99
Trichloroethene	701	ug/l	1.6	5.1	0.5	10		8260	srh	7/7/99
Trichlorofluoromethane	< 3.4	ug/l	3.4	11	ns	10		8260	srh	7/7/99
Vinyl chloride	< 2.1	ug/l	2.1	6.7	0.02	10		8260	srh	7/7/99

Sample Number: 15672 QC Prep Batch Number: 991375 Sample analyzed within 1 Day(s) from collection.

Client ID: 990706WA01Q Sample Description: Collection: 7/6/99 Time:

1,1,1,2-Tetrachloroethane	< 2	ug/l	2	6.4	ns	10		8260	srh	7/7/99
1,1,1-Trichloroethane	267	ug/l	2.3	7.3	40	10		8260	srh	7/7/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	0.02	10		8260	srh	7/7/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	0.5	10		8260	srh	7/7/99
1,1-Dichloroethane	23	ug/l	1.5	4.8	85	10		8260	srh	7/7/99
1,1-Dichloroethene	16	ug/l	3.6	11	0.7	10		8260	srh	7/7/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	ns	10		8260	srh	7/7/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7	ns	10		8260	srh	7/7/99
1,2,3-Trichloropropane	< 6	ug/l	6	19	ns	10		8260	srh	7/7/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	14	10		8260	srh	7/7/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	ns	10		8260	srh	7/7/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	0.005	10		8260	srh	7/7/99
1,2-Dichlorobenzene	< 2	ug/l	2	6.4	60	10		8260	srh	7/7/99
1,2-Dichloroethane	< 1.9	ug/l	1.9	6	0.5	10		8260	srh	7/7/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	0.5	10		8260	srh	7/7/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	srh	7/7/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6	125	10		8260	srh	7/7/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	ns	10		8260	srh	7/7/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	15	10		8260	srh	7/7/99
12Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	0.02	10		8260	srh	7/7/99
2,2-Dichloropropane	< 4	ug/l	4	13	ns	10		8260	srh	7/7/99
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	srh	7/7/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	ns	10		8260	srh	7/7/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	ns	10		8260	srh	7/7/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8	ns	10		8260	srh	7/7/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	50	10		8260	srh	7/7/99
Acetone	< 16	ug/l	16	49	200	10		8260	srh	7/7/99
Benzene	< 1.9	ug/l	1.9	6	0.5	10		8260	srh	7/7/99
Bromobenzene	< 1.9	ug/l	1.9	6	ns	10		8260	srh	7/7/99
Bromochloromethane	< 3.4	ug/l	3.4	11	ns	10		8260	srh	7/7/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	0.06	10		8260	srh	7/7/99
Bromoform	< 4.7	ug/l	4.7	15	0.44	10		8260	srh	7/7/99
Bromomethane	< 2.1	ug/l	2.1	6.7	1	10		8260	srh	7/7/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7	0.5	10		8260	srh	7/7/99
Chlorobenzene	< 2	ug/l	2	6.4	20	10		8260	srh	7/7/99
Chloroethane	< 12	ug/l	12	37	80	10		8260	srh	7/7/99
Chloroform	< 2.7	ug/l	2.7	8.6	0.6	10		8260	srh	7/7/99
Chloromethane	< 7.7	ug/l	7.7	24	0.3	10		8260	srh	7/7/99
cis-1,2-Dichloroethene	58	ug/l	2	6.4	7	10		8260	srh	7/7/99
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	0.02	10		8260	srh	7/7/99
Dibromochloromethane	< 2.1	ug/l	2.1	6.7	6	10		8260	srh	7/7/99
Dibromomethane	< 3.5	ug/l	3.5	11	ns	10		8260	srh	7/7/99
Dichlorodifluoromethane	< 3.6	ug/l	3.6	11	200	10		8260	srh	7/7/99
Ethylbenzene	< 1.6	ug/l	1.6	5.1	140	10		8260	srh	7/7/99
Hexachlorobutadiene	< 2.2	ug/l	2.2	7	ns	10		8260	srh	7/7/99
Isopropyl Ether	< 3.2	ug/l	3.2	10	ns	10		8260	srh	7/7/99
Isopropylbenzene	< 1.6	ug/l	1.6	5.1	ns	10		8260	srh	7/7/99
m&p-xylene	< 3.6	ug/l	3.6	11	124	10		8260	srh	7/7/99
Methyl-t-butyl ether	< 2.1	ug/l	2.1	6.7	12	10		8260	srh	7/7/99
Methylene chloride	< 7.6	ug/l	7.6	24	0.5	10		8260	srh	7/7/99
n-Butylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	srh	7/7/99
n-Propylbenzene	< 2.5	ug/l	2.5	8	ns	10		8260	srh	7/7/99
Naphthalene	< 4.6	ug/l	4.6	15	8	10		8260	srh	7/7/99
o-xylene	< 1.8	ug/l	1.8	5.7	124	10		8260	srh	7/7/99
p-Isopropyltoluene	< 1.8	ug/l	1.8	5.7	ns	10		8260	srh	7/7/99
sec-Butylbenzene	< 3	ug/l	3	9.5	ns	10		8260	srh	7/7/99
Styrene	< 2.1	ug/l	2.1	6.7	10	10		8260	srh	7/7/99



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 2	ug/l	2	6.4	ns	10		8260	srh	7/7/99
Tetrachloroethene	< 2.9	ug/l	2.9	9.2	0.5	10		8260	srh	7/7/99
Toluene	< 3.3	ug/l	3.3	10	68.6	10		8260	srh	7/7/99
trans-1,2-Dichloroethene	19	ug/l	1.6	5.1	20	10		8260	srh	7/7/99
trans-1,3-Dichloropropene	< 2	ug/l	2	6.4	0.02	10		8260	srh	7/7/99
Trichloroethene	697	ug/l	1.6	5.1	0.5	10		8260	srh	7/7/99
Trichlorofluoromethane	< 3.4	ug/l	3.4	11	ns	10		8260	srh	7/7/99
Vinyl chloride	< 2.1	ug/l	2.1	6.7	0.02	10		8260	srh	7/7/99

Sample Number: 15676 QC Prep Batch Number: 991375 Sample analyzed within 1 Day(s) from collection.

Client ID: 990706WA07P Sample Description: Collection: 7/6/99 Time:

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	srh	7/7/99
1,1,1-Trichloroethane	0.37	ug/l	0.23	0.73	40	1	J	8260	srh	7/7/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	srh	7/7/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	srh	7/7/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	srh	7/7/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	srh	7/7/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	srh	7/7/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	srh	7/7/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	srh	7/7/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	srh	7/7/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	srh	7/7/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	srh	7/7/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	srh	7/7/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	srh	7/7/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	srh	7/7/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	srh	7/7/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	srh	7/7/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	srh	7/7/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	srh	7/7/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	srh	7/7/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	srh	7/7/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	srh	7/7/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	srh	7/7/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	srh	7/7/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	srh	7/7/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	srh	7/7/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	srh	7/7/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	srh	7/7/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Bromodichloromethane	1	ug/l	0.26	0.83	0.06	1		8260	srh	7/7/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	srh	7/7/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	srh	7/7/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	srh	7/7/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	srh	7/7/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	srh	7/7/99
Chloroform	2.8	ug/l	0.27	0.86	0.6	1		8260	srh	7/7/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	srh	7/7/99
cis-1,2-Dichloroethene	0.33	ug/l	0.2	0.64	7	1	J	8260	srh	7/7/99
cis-1,3-Dichloropropene	0.86	ug/l	0.24	0.76	0.02	1		8260	srh	7/7/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	srh	7/7/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	srh	7/7/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	srh	7/7/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	srh	7/7/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	srh	7/7/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	srh	7/7/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	srh	7/7/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	srh	7/7/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	srh	7/7/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	srh	7/7/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	srh	7/7/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	srh	7/7/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	srh	7/7/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	srh	7/7/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	srh	7/7/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	srh	7/7/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	srh	7/7/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	srh	7/7/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	srh	7/7/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	srh	7/7/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	srh	7/7/99
Trichloroethene	1.8	ug/l	0.16	0.51	0.5	1		8260	srh	7/7/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	srh	7/7/99

Sample Number: 15677 QC Prep Batch Number: 991375 Sample analyzed within 1 Day(s) from collection.

Client ID: 990706WA09P Sample Description: Collection: 7/6/99 Time:

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	srh	7/7/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	srh	7/7/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	srh	7/7/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	srh	7/7/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	srh	7/7/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	srh	7/7/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	srh	7/7/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	srh	7/7/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	srh	7/7/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	srh	7/7/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	srh	7/7/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	srh	7/7/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	srh	7/7/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	srh	7/7/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	srh	7/7/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	srh	7/7/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	srh	7/7/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	srh	7/7/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	srh	7/7/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	srh	7/7/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	srh	7/7/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	srh	7/7/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	srh	7/7/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	srh	7/7/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	srh	7/7/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	srh	7/7/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	srh	7/7/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	srh	7/7/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	srh	7/7/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	srh	7/7/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	srh	7/7/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	srh	7/7/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	srh	7/7/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	srh	7/7/99
Chloroform	0.44	ug/l	0.27	0.86	0.6	1	J	8260	srh	7/7/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	srh	7/7/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	srh	7/7/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	srh	7/7/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	srh	7/7/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	srh	7/7/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	srh	7/7/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	srh	7/7/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	srh	7/7/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	srh	7/7/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	srh	7/7/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	srh	7/7/99



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James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	srh	7/7/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	srh	7/7/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	srh	7/7/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	srh	7/7/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	srh	7/7/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	srh	7/7/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	srh	7/7/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	srh	7/7/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	srh	7/7/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	srh	7/7/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	srh	7/7/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	srh	7/7/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	srh	7/7/99
Trichloroethene	0.47	ug/l	0.16	0.51	0.5	1	J	8260	srh	7/7/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	srh	7/7/99

Sample Number:	15678	QC Prep Batch Number:	991375	Sample analyzed within:	1 Day(s) from collection.				
Client ID:	TRIP BLANK	Sample Description:	Collection:	7/6/99	Time:				
1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1	8260	srh	7/7/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1	8260	srh	7/7/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1	8260	srh	7/7/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1	8260	srh	7/7/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1	8260	srh	7/7/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1	8260	srh	7/7/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1	8260	srh	7/7/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1	8260	srh	7/7/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1	8260	srh	7/7/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1	8260	srh	7/7/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1	8260	srh	7/7/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1	8260	srh	7/7/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1	8260	srh	7/7/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1	8260	srh	7/7/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1	8260	srh	7/7/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1	8260	srh	7/7/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1	8260	srh	7/7/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1	8260	srh	7/7/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1	8260	srh	7/7/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1	8260	srh	7/7/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1	8260	srh	7/7/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1	8260	srh	7/7/99



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	srh	7/7/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	srh	7/7/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	srh	7/7/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	srh	7/7/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	srh	7/7/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	srh	7/7/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	srh	7/7/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	srh	7/7/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	srh	7/7/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	srh	7/7/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	srh	7/7/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	srh	7/7/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	srh	7/7/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	srh	7/7/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	srh	7/7/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	srh	7/7/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	srh	7/7/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	srh	7/7/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	srh	7/7/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	srh	7/7/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	srh	7/7/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	srh	7/7/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	srh	7/7/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	srh	7/7/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	srh	7/7/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	srh	7/7/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	srh	7/7/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	srh	7/7/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	srh	7/7/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	srh	7/7/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	srh	7/7/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	srh	7/7/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	srh	7/7/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	srh	7/7/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	srh	7/7/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	srh	7/7/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	srh	7/7/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	srh	7/7/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	srh	7/7/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 15679 QC Prep Batch Number: 991375 Sample analyzed within 1 Day(s) from collection. Client ID: TRIP CULLIG Sample Description: Collection: 7/6/99 Time:										
1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	srh	7/7/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	srh	7/7/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	srh	7/7/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	srh	7/7/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	srh	7/7/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	srh	7/7/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	srh	7/7/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	srh	7/7/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	srh	7/7/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	srh	7/7/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	srh	7/7/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	srh	7/7/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	srh	7/7/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	srh	7/7/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	srh	7/7/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	srh	7/7/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	srh	7/7/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	srh	7/7/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	srh	7/7/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	srh	7/7/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	srh	7/7/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	srh	7/7/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	srh	7/7/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	srh	7/7/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	srh	7/7/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	srh	7/7/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	srh	7/7/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	srh	7/7/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	srh	7/7/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	srh	7/7/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	srh	7/7/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	srh	7/7/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	srh	7/7/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	srh	7/7/99
Chloroform	0.33	ug/l	0.27	0.86	0.6	1	J	8260	srh	7/7/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	srh	7/7/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	srh	7/7/99



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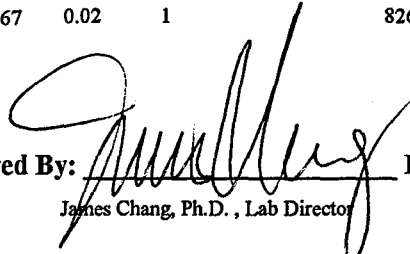
James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
 Ashippun, WI 53003

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990520
 DATE REPORTED: 09-Jul-99
 DATE RECEIVED: 07-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Monthly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	srh	7/7/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	srh	7/7/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	srh	7/7/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	srh	7/7/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	srh	7/7/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	srh	7/7/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	srh	7/7/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	srh	7/7/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	srh	7/7/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	srh	7/7/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	srh	7/7/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	srh	7/7/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	srh	7/7/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	srh	7/7/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	srh	7/7/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	srh	7/7/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	srh	7/7/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	srh	7/7/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	srh	7/7/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	srh	7/7/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	srh	7/7/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	srh	7/7/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	srh	7/7/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	srh	7/7/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	srh	7/7/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	srh	7/7/99

Approved By:  Date: 7.9.99
 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.



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990526
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 12-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 15710										
Client ID: 990712WA01P										
							Collection: 7/12/99	Time: 12:40		
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.13	mg/l	RJ	0.002	0.006	200.7	dmd	7/14/99	991434	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd	7/14/99	991434	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Iron - ICAP	1.1	mg/l	RJ	0.078	0.25	200.7	dmd	7/14/99	991434	
Lead - Furnace AA	<1.4	ug/l		1.4	4.5	239.2	dmd/rf	7/15/99	991436	
Manganese - ICAP	0.22	mg/l	RJ	0.004	0.01	200.7	dmd	7/14/99	991434	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	0.05	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Selenium - Furnace AA	8.1	ug/l	J RJ	7.8	25	270.2	dmd	7/15/99	991442	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd	7/14/99	991434	
Thallium - Furnace AA	14	ug/l	J RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/13/99	991440	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991446	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991443	
pH (water)	7	s.u.	#			150.1	ag	7/14/99	991421	

Nova Sample Number: 15711

Client ID: 990712WA09R

Collection: 7/12/99

Time: 13:30

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.04	mg/l	RJ	0.002	0.006	200.7	dmd	7/14/99	991434	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd	7/14/99	991434	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd	7/14/99	991434	
Iron - ICAP	0.2	mg/l	J RJ	0.078	0.25	200.7	dmd	7/14/99	991434	
Lead - Furnace AA	<1.4	ug/l		1.4	4.5	239.2	dmd/rf	7/15/99	991436	
Manganese - ICAP	0.01	mg/l	J RJ	0.004	0.01	200.7	dmd	7/14/99	991434	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	11	ug/l	J RJ	10	32	200.7	dmd	7/14/99	991434	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd	7/15/99	991442	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990526
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 12-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd	7/14/99	991434	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.03	mg/l	J RJ	0.01	0.03	200.7	dmd	7/14/99	991434	

Nova Sample Number: 15712

Client ID: 990712WA02P

Collection: 7/12/99 Time: 12:30

Sample Description:

pH (water) 10 s.u. #

150.1

ag 7/14/99 991421

Nova Sample Number: 15713

Client ID: 990712WA03P

Collection: 7/12/99 Time: 13:00

Sample Description:

pH (water) 11 s.u. #

150.1

ag 7/14/99 991421

Nova Sample Number: 15714

Client ID: 990712WA05P

Collection: 7/12/99 Time: 13:10

Sample Description:

pH (water) 7.5 s.u. #

150.1

ag 7/14/99 991421

Nova Sample Number: 15715

Client ID: 990712WA09P

Collection: 7/12/99 Time: 13:20

Sample Description:

Chromium, Hexavalent <0.0042 mg/l

0.004 0.01 SM 3500

805353 7/13/99 991440

Cyanide, Amenable <0.018 mg/l

0.018 0.06 335.2

van 7/15/99 991446

Cyanide, Total <0.018 mg/l

0.018 0.06 385.2

van 7/15/99 991443

Approved By: 

James Chang, Ph.D., Lab Director

Date: 7/27/99

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 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

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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990526
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 12-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Sample Number: 15710									
Client ID: 990712WA01P									
QC Prep Batch Number: 991438									
Collection: 7/12/99									
Time: 12:40									
Sample Description:									
1,1,1,2-Tetrachloroethane	< 2.0	ug/l	2.0	6.4	10	8260	cps		/ 7/14/99
1,1,1-Trichloroethane	425	ug/l	2.3	7.3	10	8260	cps		/ 7/14/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	10	8260	cps		/ 7/14/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	10	8260	cps		/ 7/14/99
1,1-Dichloroethane	29	ug/l	1.5	4.8	10	8260	cps		/ 7/14/99
1,1-Dichloroethene	23	ug/l	3.6	11	10	8260	cps		/ 7/14/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	10	8260	cps		/ 7/14/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7.0	10	8260	cps		/ 7/14/99
1,2,3-Trichloropropane	< 6.0	ug/l	6.0	19	10	8260	cps		/ 7/14/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	10	8260	cps		/ 7/14/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	10	8260	cps		/ 7/14/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	10	8260	cps		/ 7/14/99
1,2-Dichlorobenzene	< 2.0	ug/l	2.0	6.4	10	8260	cps		/ 7/14/99
1,2-Dichloroethane	< 1.9	ug/l	1.9	6.0	10	8260	cps		/ 7/14/99
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	10	8260	cps		/ 7/14/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	10	8260	cps		/ 7/14/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6.0	10	8260	cps		/ 7/14/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	10	8260	cps		/ 7/14/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	10	8260	cps		/ 7/14/99
12Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	10	8260	cps		/ 7/14/99
2,2-Dichloropropane	< 4.0	ug/l	4.0	13	10	8260	cps		/ 7/14/99
2-Butanone (MEK)	< 14	ug/l	14	44	10	8260	cps		/ 7/14/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	10	8260	cps		/ 7/14/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	10	8260	cps		/ 7/14/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8.0	10	8260	cps		/ 7/14/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	10	8260	cps		/ 7/14/99
Acetone	< 16	ug/l	16	49	10	8260	cps		/ 7/14/99
Benzene	< 1.9	ug/l	1.9	6.0	10	8260	cps		/ 7/14/99
Bromobenzene	< 1.9	ug/l	1.9	6.0	10	8260	cps		/ 7/14/99
Bromochloromethane	< 3.4	ug/l	3.4	11	10	8260	cps		/ 7/14/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	10	8260	cps		/ 7/14/99
Bromoform	< 4.7	ug/l	4.7	15	10	8260	cps		/ 7/14/99
Bromomethane	< 2.1	ug/l	2.1	6.7	10	8260	cps		/ 7/14/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7.0	10	8260	cps		/ 7/14/99
Chlorobenzene	< 2.0	ug/l	2.0	6.4	10	8260	cps		/ 7/14/99
Chloroethane	< 12	ug/l	12	37	10	8260	cps		/ 7/14/99
Chloroform	< 2.7	ug/l	2.7	8.6	10	8260	cps		/ 7/14/99
Chloromethane	< 7.7	ug/l	7.7	24	10	8260	cps		/ 7/14/99
cis-1,2-Dichloroethene	64	ug/l	2.0	6.4	10	8260	cps		/ 7/14/99
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	10	8260	cps		/ 7/14/99
Dibromochloromethane	< 2.1	ug/l	2.1	6.7	10	8260	cps		/ 7/14/99
Dibromomethane	< 3.5	ug/l	3.5	11	10	8260	cps		/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990526
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 12-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dichlorodifluoromethane	< 3.6	ug/l	3.6	11	10		8260	cps	/ 7/14/99
Ethylbenzene	< 1.6	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.0	10		8260	cps	/ 7/14/99
Isopropyl Ether	< 3.2	ug/l	3.2	10	10		8260	cps	/ 7/14/99
Isopropylbenzene	< 1.6	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
m&p-xylene	< 3.6	ug/l	3.6	11	10		8260	cps	/ 7/14/99
Methyl-t-butyl ether	< 2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99
Methylene chloride	< 7.6	ug/l	7.6	24	10		8260	cps	/ 7/14/99
n-Butylbenzene	< 2.3	ug/l	2.3	7.3	10		8260	cps	/ 7/14/99
n-Propylbenzene	< 2.5	ug/l	2.5	8.0	10		8260	cps	/ 7/14/99
Naphthalene	< 4.6	ug/l	4.6	15	10		8260	cps	/ 7/14/99
o-xylene	< 1.8	ug/l	1.8	5.7	10		8260	cps	/ 7/14/99
p-Isopropyltoluene	< 1.8	ug/l	1.8	5.7	10		8260	cps	/ 7/14/99
sec-Butylbenzene	< 3.0	ug/l	3.0	9.5	10		8260	cps	/ 7/14/99
Styrene	< 2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99
tert-Butylbenzene	< 2.0	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
Tetrachloroethene	9.5	ug/l	2.9	9.2	10		8260	cps	/ 7/14/99
Toluene	< 3.3	ug/l	3.3	10	10		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	23	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 2.0	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
Trichloroethene	911	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
Trichlorofluoromethane	< 3.4	ug/l	3.4	11	10		8260	cps	/ 7/14/99
Vinyl chloride	< 2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99

Sample Number: 15715

QC Prep Batch Number: 991438

Collection: 7/12/99

Time: 13:20

Client ID: 990712WA09P

Sample Description:

1,1,1,2-Tetrachloroethane	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	< 0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990526
DATE REPORTED: 16-Jul-99
DATE RECEIVED: 12-Jul-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,2-Dibromo-3-chloropropane	< 0.59	ug/l	0.59	1.9	1		8260	cps	/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1		8260	cps	/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1		8260	cps	/ 7/14/99
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Chlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1		8260	cps	/ 7/14/99
Chloroform	0.45	ug/l	0.27	0.86	1	J	8260	cps	/ 7/14/99
Chloromethane	< 0.77	ug/l	0.77	2.4	1		8260	cps	/ 7/14/99
cis-1,2-Dichloroethene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/14/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Isopropyl Ether	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/14/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	1		8260	cps	/ 7/14/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
Naphthalene	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/14/99
o-xylene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
sec-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/14/99
Styrene	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
tert-Butylbenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
Toluene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	0.54	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990526
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 12-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Trichlorofluoromethane	0.63	ug/l	0.34	1.1	1	J	8260	cps	/ 7/14/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Sample Number: 15716

QC Prep Batch Number: 991438

Collection: 7/12/99

Time: 13:40

Client ID: 990WA07P

Sample Description:

1,1,1,2-Tetrachloroethane	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	0.58	ug/l	0.23	0.73	1	J	8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	< 0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	1		8260	cps	/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1		8260	cps	/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1		8260	cps	/ 7/14/99
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Bromodichloromethane	0.64	ug/l	0.26	0.83	1	J	8260	cps	/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Chlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1		8260	cps	/ 7/14/99
Chloroform	1.6	ug/l	0.27	0.86	1		8260	cps	/ 7/14/99
Chloromethane	< 0.77	ug/l	0.77	2.4	1		8260	cps	/ 7/14/99
cis-1,2-Dichloroethene	0.32	ug/l	0.20	0.64	1	J	8260	cps	/ 7/14/99



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James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990526
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 12-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
Dibromochloromethane	0.61	ug/l	0.21	0.67	1	J	8260	cps	/ 7/14/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/14/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Isopropyl Ether	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/14/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	1		8260	cps	/ 7/14/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
Naphthalene	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/14/99
o-xylene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
sec-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/14/99
Styrene	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
tert-Butylbenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
Toluene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	2.4	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Trichlorofluoromethane	0.54	ug/l	0.34	1.1	1	J	8260	cps	/ 7/14/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Sample Number: 15717

QC Prep Batch Number: 991438

Collection: 7/12/99

Time:

Client ID: TRIP BLANK

Sample Description:

1,1,1,2-Tetrachloroethane	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	< 0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990526
DATE REPORTED: 16-Jul-99
DATE RECEIVED: 12-Jul-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	1	8260	cps		/ 7/14/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.60	1	8260	cps		/ 7/14/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1	8260	cps		/ 7/14/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	1	8260	cps		/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1	8260	cps		/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1	8260	cps		/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1	8260	cps		/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1	8260	cps		/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1	8260	cps		/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1	8260	cps		/ 7/14/99
Acetone	< 1.6	ug/l	1.6	4.9	1	8260	cps		/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1	8260	cps		/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1	8260	cps		/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1	8260	cps		/ 7/14/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	1	8260	cps		/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1	8260	cps		/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1	8260	cps		/ 7/14/99
Chlorobenzene	< 0.20	ug/l	0.20	0.64	1	8260	cps		/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1	8260	cps		/ 7/14/99
Chloroform	< 0.27	ug/l	0.27	0.86	1	8260	cps		/ 7/14/99
Chloromethane	< 0.77	ug/l	0.77	2.4	1	8260	cps		/ 7/14/99
cis-1,2-Dichloroethene	< 0.20	ug/l	0.20	0.64	1	8260	cps		/ 7/14/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	1	8260	cps		/ 7/14/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	1	8260	cps		/ 7/14/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	1	8260	cps		/ 7/14/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	1	8260	cps		/ 7/14/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.70	1	8260	cps		/ 7/14/99
Isopropyl Ether	< 0.32	ug/l	0.32	1.0	1	8260	cps		/ 7/14/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	1	8260	cps		/ 7/14/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	1	8260	cps		/ 7/14/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	1	8260	cps		/ 7/14/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	1	8260	cps		/ 7/14/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.80	1	8260	cps		/ 7/14/99
Naphthalene	< 0.46	ug/l	0.46	1.5	1	8260	cps		/ 7/14/99
o-xylene	< 0.18	ug/l	0.18	0.57	1	8260	cps		/ 7/14/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	1	8260	cps		/ 7/14/99
sec-Butylbenzene	< 0.30	ug/l	0.30	0.95	1	8260	cps		/ 7/14/99
Styrene	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
tert-Butylbenzene	< 0.20	ug/l	0.20	0.64	1	8260	cps		/ 7/14/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	1	8260	cps		/ 7/14/99
Toluene	< 0.33	ug/l	0.33	1.0	1	8260	cps		/ 7/14/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990526
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 12-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	0.23	ug/l	0.16	0.51	1	J	8260	cps	/ 7/14/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Approved By:  Date: 7/20/99
 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.



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 990532
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monitoring

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 15728										
Client ID: 990713MW05DP										
							Collection: 7/13/99	Time: 13:00		
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.07	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	0.03	mg/l	J RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	4.2	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	<1.4	ug/l		1.4	4.5	239.2	dmd/rf	7/15/99	991436	
Manganese - ICAP	0.09	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	29	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/14/99	991440	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991446	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991443	
pH (water)	7	s.u.	#			150.1	rf	7/14/99	991433	

Nova Sample Number: 15729
 Client ID: 990713MW02DP

Collection: 7/13/99 Time: 13:20
 Sample Description:

Arsenic - Furnace AA	36	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.05	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	2.3	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	0.08	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	9.2	ug/l	J RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 990532
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monitoring

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	29	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.07	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/14/99	991440	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991446	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991443	
pH (water)	6.3	s.u.	#			150.1	rf	7/14/99	991433	

Nova Sample Number: 15730

Client ID: 990713MW14DP

Collection: 7/13/99

Time: 13:40

Sample Description:

Arsenic - Furnace AA	33	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.05	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	2.3	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	0.08	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	11	ug/l	J RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.07	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/14/99	991440	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991446	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991443	
pH (water)	7.2	s.u.	#			150.1	rf	7/14/99	991433	

Nova Sample Number: 15731

Client ID: 990713MW15DP

Collection: 7/13/99

Time: 14:00

Sample Description:

Arsenic - Furnace AA	48	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.04	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990532
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monitoring

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	0.28	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	2.5	ug/l	J RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	0.07	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	17	ug/l	J RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	34	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/14/99	991440	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991446	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991443	
pH (water)	7.2	s.u.	#			150.1	rf	7/14/99	991433	

Nova Sample Number: 15732
 Client ID: 990713MW06P

Collection: 7/13/99 Time: 14:20
 Sample Description:

Arsenic - Furnace AA	35	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.46	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	0.03	mg/l	J RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper- ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	21	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	35	ug/l	RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	1.6	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	0.05	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	21	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.1	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/14/99	991440	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991446	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/15/99	991445	



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 990532
 DATE REPORTED: 27-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monitoring

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
pH (water)	7.2	s.u.	#		150.1		rf	7/14/99	991433	

Approved By: _____

James Chang, Ph.D., Lab Director

Date: _____

7/27/99

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 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

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.



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

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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Sample Number: 15728									
Client ID: 990713MW05DP									
QC Prep Batch Number: 991438									
Collection: 7/13/99									
Time: 13:00									
Sample Description:									
1,1,1,2-Tetrachloroethane	< 2.0	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	< 2.3	ug/l	2.3	7.3	10		8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	10		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	10		8260	cps	/ 7/14/99
1,1-Dichloroethane	< 1.5	ug/l	1.5	4.8	10		8260	cps	/ 7/14/99
1,1-Dichloroethene	< 3.6	ug/l	3.6	11	10		8260	cps	/ 7/14/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	10		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7.0	10		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	< 6.0	ug/l	6.0	19	10		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	10		8260	cps	/ 7/14/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	10		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	< 2.0	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
1,2-Dichloroethane	2.4	ug/l	1.9	6.0	10	J	8260	cps	/ 7/14/99
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	10		8260	cps	/ 7/14/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	10		8260	cps	/ 7/14/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6.0	10		8260	cps	/ 7/14/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	10		8260	cps	/ 7/14/99
1,2-Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	10		8260	cps	/ 7/14/99
2,2-Dichloropropane	< 4.0	ug/l	4.0	13	10		8260	cps	/ 7/14/99
2-Butanone (MEK)	< 14	ug/l	14	44	10		8260	cps	/ 7/14/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	10		8260	cps	/ 7/14/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	10		8260	cps	/ 7/14/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8.0	10		8260	cps	/ 7/14/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	10		8260	cps	/ 7/14/99
Acetone	< 16	ug/l	16	49	10		8260	cps	/ 7/14/99
Benzene	< 1.9	ug/l	1.9	6.0	10		8260	cps	/ 7/14/99
Bromobenzene	< 1.9	ug/l	1.9	6.0	10		8260	cps	/ 7/14/99
Bromochloromethane	< 3.4	ug/l	3.4	11	10		8260	cps	/ 7/14/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	10		8260	cps	/ 7/14/99
Bromoform	< 4.7	ug/l	4.7	15	10		8260	cps	/ 7/14/99
Bromomethane	< 2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7.0	10		8260	cps	/ 7/14/99
Chlorobenzene	< 2.0	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
Chloroethane	< 12	ug/l	12	37	10		8260	cps	/ 7/14/99
Chloroform	< 2.7	ug/l	2.7	8.6	10		8260	cps	/ 7/14/99
Chloromethane	< 7.7	ug/l	7.7	24	10		8260	cps	/ 7/14/99
cis-1,2-Dichloroethene	32	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	10		8260	cps	/ 7/14/99
Dibromochloromethane	< 2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99
Dibromomethane	< 3.5	ug/l	3.5	11	10		8260	cps	/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	10		8260	cps	/ 7/14/99
Ethylbenzene	<1.6	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
Hexachlorobutadiene	<2.2	ug/l	2.2	7.0	10		8260	cps	/ 7/14/99
Isopropyl Ether	<3.2	ug/l	3.2	10	10		8260	cps	/ 7/14/99
Isopropylbenzene	<1.6	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
m&p-xylene	<3.6	ug/l	3.6	11	10		8260	cps	/ 7/14/99
Methyl-t-butyl ether	52	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99
Methylene chloride	<7.6	ug/l	7.6	24	10		8260	cps	/ 7/14/99
n-Butylbenzene	<2.3	ug/l	2.3	7.3	10		8260	cps	/ 7/14/99
n-Propylbenzene	<2.5	ug/l	2.5	8.0	10		8260	cps	/ 7/14/99
Naphthalene	<4.6	ug/l	4.6	15	10		8260	cps	/ 7/14/99
o-xylene	<1.8	ug/l	1.8	5.7	10		8260	cps	/ 7/14/99
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	10		8260	cps	/ 7/14/99
sec-Butylbenzene	<3.0	ug/l	3.0	9.5	10		8260	cps	/ 7/14/99
Styrene	<2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99
tert-Butylbenzene	<2.0	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
Tetrachloroethene	<2.9	ug/l	2.9	9.2	10		8260	cps	/ 7/14/99
Toluene	<3.3	ug/l	3.3	10	10		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	<1.6	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	<2.0	ug/l	2.0	6.4	10		8260	cps	/ 7/14/99
Trichloroethene	553	ug/l	1.6	5.1	10		8260	cps	/ 7/14/99
Trichlorofluoromethane	<3.4	ug/l	3.4	11	10		8260	cps	/ 7/14/99
Vinyl chloride	<2.1	ug/l	2.1	6.7	10		8260	cps	/ 7/14/99

Sample Number: 15729

QC Prep Batch Number: 991438

Collection: 7/13/99

Time: 13:20

Client ID: 990713MW02DP

Sample Description:

1,1,1,2-Tetrachloroethane	<0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	0.29	ug/l	0.15	0.48	1	J	8260	cps	/ 7/14/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	<0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	<0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,2-Dibromo-3-chloropropane	< 0.59	ug/l	0.59	1.9	1		8260	cps	/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1		8260	cps	/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1		8260	cps	/ 7/14/99
Acetone	122	ug/l	1.6	4.9	1		8260	cps	/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Chlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1		8260	cps	/ 7/14/99
Chloroform	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/14/99
Chloromethane	< 0.77	ug/l	0.77	2.4	1		8260	cps	/ 7/14/99
cis-1,2-Dichloroethene	0.91	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/14/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Isopropyl Ether	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/14/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Methyl-t-butyl ether	0.66	ug/l	0.21	0.67	1	J	8260	cps	/ 7/14/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	1		8260	cps	/ 7/14/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
Naphthalene	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/14/99
o-xylene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
sec-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/14/99
Styrene	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
tert-Butylbenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
Toluene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	0.64	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Trichlorofluoromethane	0.59	ug/l	0.34	1.1	1	J	8260	cps	/ 7/14/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Sample Number: 15730

QC Prep Batch Number: 991438

Collection: 7/13/99

Time: 13:40

Client ID: 990713MW14DP

Sample Description:

1,1,1,2-Tetrachloroethane	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	< 0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	1		8260	cps	/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1		8260	cps	/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1		8260	cps	/ 7/14/99
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Chlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1		8260	cps	/ 7/14/99
Chloroform	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/14/99
Chloromethane	< 0.77	ug/l	0.77	2.4	1		8260	cps	/ 7/14/99
cis-1,2-Dichloroethene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/14/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Isopropyl Ether	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/14/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	1		8260	cps	/ 7/14/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
Naphthalene	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/14/99
o-xylene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
sec-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/14/99
Styrene	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
tert-Butylbenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
Toluene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Sample Number: 15731

QC Prep Batch Number: 991438

Collection: 7/13/99

Time: 14:00

Client ID: 990713MW15DP

Sample Description:

1,1,1,2-Tetrachloroethane	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	< 0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
DATE REPORTED: 16-Jul-99
DATE RECEIVED: 14-Jul-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	1		8260	cps	/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1		8260	cps	/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1		8260	cps	/ 7/14/99
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Chlorobenzene	5.7	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1		8260	cps	/ 7/14/99
Chloroform	< 0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/14/99
Chloromethane	< 0.77	ug/l	0.77	2.4	1		8260	cps	/ 7/14/99
cis-1,2-Dichloroethene	3.2	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/14/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Isopropyl Ether	< 0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/14/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Methyl-t-butyl ether	0.73	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	1		8260	cps	/ 7/14/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
Naphthalene	< 0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/14/99
o-xylene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
sec-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/14/99
Styrene	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
tert-Butylbenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
Toluene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,2-Dichloroethene	0.41	ug/l	0.16	0.51	1	J	8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	33	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Sample Number: 15732

QC Prep Batch Number: 991438

Collection: 7/13/99

Time: 14:20

Client ID: 990713MW06P

Sample Description:

1,1,1,2-Tetrachloroethane	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	< 0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
1,2-Dichlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	1		8260	cps	/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1		8260	cps	/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	cps	/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1		8260	cps	/ 7/14/99
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	cps	/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1		8260	cps	/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	1		8260	cps	/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1		8260	cps	/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Chlorobenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1		8260	cps	/ 7/14/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Chloroform	<0.27	ug/l	0.27	0.86	1		8260	cps	/ 7/14/99
Chloromethane	<0.77	ug/l	0.77	2.4	1		8260	cps	/ 7/14/99
cis-1,2-Dichloroethene	<0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Dibromomethane	<0.35	ug/l	0.35	1.1	1		8260	cps	/ 7/14/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
Isopropyl Ether	<0.32	ug/l	0.32	1.0	1		8260	cps	/ 7/14/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
m&p-xylene	<0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
Methylene chloride	<0.76	ug/l	0.76	2.4	1		8260	cps	/ 7/14/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
n-Propylbenzene	<0.25	ug/l	0.25	0.80	1		8260	cps	/ 7/14/99
Naphthalene	<0.46	ug/l	0.46	1.5	1		8260	cps	/ 7/14/99
o-xylene	<0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	1		8260	cps	/ 7/14/99
sec-Butylbenzene	<0.30	ug/l	0.30	0.95	1		8260	cps	/ 7/14/99
Styrene	<0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99
tert-Butylbenzene	<0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
Toluene	<0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	<0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	<0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Sample Number: 15733

QC Prep Batch Number: 991438

Collection: 7/13/99

Time:

Client ID: Trip blank

Sample Description:

1,1,1,2-Tetrachloroethane	<0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	1		8260	cps	/ 7/14/99
1,1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	1		8260	cps	/ 7/14/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	1		8260	cps	/ 7/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	1		8260	cps	/ 7/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.70	1		8260	cps	/ 7/14/99
1,2,3-Trichloropropane	<0.60	ug/l	0.60	1.9	1		8260	cps	/ 7/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	1		8260	cps	/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
DATE REPORTED: 16-Jul-99
DATE RECEIVED: 14-Jul-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: OGTP
PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,2-Dichlorobenzene	< 0.20	ug/l	0.20	0.64	1	8260	cps		/ 7/14/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.60	1	8260	cps		/ 7/14/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	1	8260	cps		/ 7/14/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	1	8260	cps		/ 7/14/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.60	1	8260	cps		/ 7/14/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	1	8260	cps		/ 7/14/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	1	8260	cps		/ 7/14/99
2,2-Dichloropropane	< 0.40	ug/l	0.40	1.3	1	8260	cps		/ 7/14/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1	8260	cps		/ 7/14/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	1	8260	cps		/ 7/14/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	1	8260	cps		/ 7/14/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.80	1	8260	cps		/ 7/14/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	1	8260	cps		/ 7/14/99
Acetone	< 1.6	ug/l	1.6	4.9	1	8260	cps		/ 7/14/99
Benzene	< 0.19	ug/l	0.19	0.60	1	8260	cps		/ 7/14/99
Bromobenzene	< 0.19	ug/l	0.19	0.60	1	8260	cps		/ 7/14/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	1	8260	cps		/ 7/14/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	1	8260	cps		/ 7/14/99
Bromoform	< 0.47	ug/l	0.47	1.5	1	8260	cps		/ 7/14/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.70	1	8260	cps		/ 7/14/99
Chlorobenzene	< 0.20	ug/l	0.20	0.64	1	8260	cps		/ 7/14/99
Chloroethane	< 1.2	ug/l	1.2	3.7	1	8260	cps		/ 7/14/99
Chloroform	< 0.27	ug/l	0.27	0.86	1	8260	cps		/ 7/14/99
Chloromethane	< 0.77	ug/l	0.77	2.4	1	8260	cps		/ 7/14/99
cis-1,2-Dichloroethene	< 0.20	ug/l	0.20	0.64	1	8260	cps		/ 7/14/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	1	8260	cps		/ 7/14/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	1	8260	cps		/ 7/14/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	1	8260	cps		/ 7/14/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	1	8260	cps		/ 7/14/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.70	1	8260	cps		/ 7/14/99
Isopropyl Ether	< 0.32	ug/l	0.32	1.0	1	8260	cps		/ 7/14/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	1	8260	cps		/ 7/14/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	1	8260	cps		/ 7/14/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	1	8260	cps		/ 7/14/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	1	8260	cps		/ 7/14/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.80	1	8260	cps		/ 7/14/99
Naphthalene	< 0.46	ug/l	0.46	1.5	1	8260	cps		/ 7/14/99
o-xylene	< 0.18	ug/l	0.18	0.57	1	8260	cps		/ 7/14/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	1	8260	cps		/ 7/14/99
sec-Butylbenzene	< 0.30	ug/l	0.30	0.95	1	8260	cps		/ 7/14/99
Styrene	< 0.21	ug/l	0.21	0.67	1	8260	cps		/ 7/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990532
 DATE REPORTED: 16-Jul-99
 DATE RECEIVED: 14-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Quarterly Monit

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
tert-Butylbenzene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	1		8260	cps	/ 7/14/99
Toluene	< 0.33	ug/l	0.33	1.0	1		8260	cps	/ 7/14/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	1		8260	cps	/ 7/14/99
trans-1,3-Dichloropropene	< 0.20	ug/l	0.20	0.64	1		8260	cps	/ 7/14/99
Trichloroethene	0.33	ug/l	0.16	0.51	1	J	8260	cps	/ 7/14/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	1		8260	cps	/ 7/14/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	1		8260	cps	/ 7/14/99

Approved By: 

Date: 7/21/99

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.



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: Quarterly Monit
 PROJECT NAME: Well Sampling

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 15737										
Client ID: 990714MW12BP										
								Collection: 7/14/99	Time: 10:40	
Sample Description:										
Arsenic - Furnace AA	26	ug/l	J RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.13	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	0.08	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	4.8	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	4	ug/l	J RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	0.25	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	0.1	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	7.6	ug/l	J RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/15/99	991459	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/28/99	991540	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/27/99	991539	
pH (water)	6.4	s.u.	#			150.1	dd	7/14/99	991441	

Nova Sample Number: 15738
 Client ID: 990714MW12DP

Collection: 7/14/99 Time: 10:20
 Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.07	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	0.03	mg/l	J RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper - ICAP	1.1	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	3.2	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	6.5	ug/l	RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	0.08	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	0.07	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monit
 PROJECT NAME: Well Sampling

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	17	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	0.005	mg/l	J	0.004	0.01	SM 3500	805353	7/15/99	991459	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/28/99	991547	
Cyanide, Total	0.03	mg/l	J	0.018	0.06	335.2	van	7/27/99	991539	
pH (water)	7.3	s.u.	#			150.1	dd	7/14/99	991441	

Nova Sample Number: 15739

Client ID: 990714MW13SP

Collection: 7/14/99

Time: 10:02

Sample Description:

Arsenic - Furnace AA	29	ug/l	J RJ	9.9	31	206.2	dmd	7/21/99	991487	
Barium - ICAP	0.04	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	5/20/99	991471	
Chromium, Total - ICAP	0.11	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	3.2	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	0.04	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	55	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991475	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/15/99	991459	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/28/99	991540	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/27/99	991539	
pH (water)	6.5	s.u.	#			150.1	dd	7/14/99	991441	

Nova Sample Number: 15740

Client ID: 990714MW16SP

Collection: 7/14/99

Time: 11:35

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991489	
Barium - ICAP	0.06	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/19/99	991468	
Cadmium - Furnace AA	0.84	ug/l	J RJ	0.7	2.2	213.2	dmd	7/20/99	991472	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monit
 PROJECT NAME: Well Sampling

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Cadmium-Total Recoverable	<0.7	ug/l	TR	0.7	2.2	7131	dmd/rf	7/23/99	991515	
Chromium, Total - ICAP	0.09	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/19/99	991468	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Iron - ICAP	84	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/19/99	991468	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd/rf	7/20/99	991467	
Manganese - ICAP	0.72	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/19/99	991468	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/20/99	991478	
Nickel - ICAP	0.1	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Selenium - Furnace AA	30	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/19/99	991468	
Thallium - Furnace AA	8.2	ug/l	J RJ	4.8	15	279.2	dmd/rf	7/20/99	991477	
Zinc - ICAP	0.2	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/19/99	991468	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/15/99	991459	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/28/99	991540	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/27/99	991539	
pH (water)	8.6	s.u.	#			150.1	dd	7/14/99	991441	

Approved By: _____

James Chang, Ph.D., Lab Director

Date: 7/29/99

RJ Result expressed as Total.

TR Result expressed as Total Recoverable.

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 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

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.



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990543
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 15769										
Client ID: 990719WA01P										
							Collection: 7/19/99	Time: 14:00		
							Sample Description:			
Arsenic - Furnace AA	14	ug/l	J RJ	9.9	31	206.2	dmd	7/21/99	991489	
Barium - ICAP	0.11	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/28/99	991542	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd	7/20/99	991472	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/28/99	991542	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Iron - ICAP	1.4	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/28/99	991542	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd	7/27/99	991535	
Manganese - ICAP	0.17	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/28/99	991542	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/22/99	991510	
Nickel - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991485	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/28/99	991542	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991477	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/20/99	991488	
Cyanide, Amenable	<0.018	mg/l		0.018	0.06	335.2	van	7/28/99	991540	
Cyanide, Total	<0.018	mg/l		0.018	0.06	335.2	van	7/27/99	991539	
pH (water)	7.1	s.u.	#			150.1	sh	7/20/99	991460	

Nova Sample Number: 15770										
Client ID: 990719WA09R										
							Collection: 7/19/99	Time: 14:35		
							Sample Description:			
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd	7/21/99	991489	
Barium - ICAP	0.02	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/28/99	991542	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd	7/20/99	991472	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/28/99	991542	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Iron - ICAP	0.26	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/28/99	991542	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd	7/27/99	991535	
Manganese - ICAP	0.009	mg/l	J RJ	0.004	0.01	200.7	dmd/rf	7/28/99	991542	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd/mp	7/22/99	991510	
Nickel - ICAP	13	ug/l	J RJ	10	32	200.7	dmd/rf	7/28/99	991542	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	7/21/99	991486	



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER: 990543
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/28/99	991542	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd/rf	7/20/99	991477	
Zinc - ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	

Nova Sample Number: 15771

Client ID: 990719WA02P

Collection: 7/19/99 Time: 14:05

Sample Description:

pH (water) 10 s.u. # 150.1

sh 7/20/99 991460

Nova Sample Number: 15772

Client ID: 990719WA03P

Collection: 7/19/99 Time: 14:10

Sample Description:

pH (water) 11 s.u. # 150.1

sh 7/20/99 991460

Nova Sample Number: 15773

Client ID: 990719WA05P

Collection: 7/19/99 Time: 14:20

Sample Description:

pH (water) 6.8 s.u. # 150.1

sh 7/20/99 991460

Nova Sample Number: 15775

Client ID: 990719WA09P

Collection: 7/19/99 Time: 14:30

Sample Description:

Chromium, Hexavalent <0.0042 mg/l 0.004 0.01 SM 3500 805353 7/20/99 991488

Cyanide, Amenable <0.018 mg/l 0.018 0.06 335.2 van 7/28/99 991540

Cyanide, Total <0.018 mg/l 0.018 0.06 335.2 van 7/27/99 991539

pH (water) 7.8 s.u. # 150.1

sh 7/20/99 991460

Approved By: 

Date: 7/25/99

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 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

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.



8222 W. Calumet Rd., Milwaukee, WI 53223
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James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
 Ashippun, WI 53003

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990543
 DATE REPORTED: 26-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 15769 QC Prep Batch Number: 991521 Sample analyzed within 3 Day(s) from collection. Client ID: 990719WA01P Sample Description: Collection: 7/19/99 Time: 14:00										
1,1,1,2-Tetrachloroethane	< 2	ug/l	2	6.4	ns	10		8260	cps	7/22/99
1,1,1-Trichloroethane	350	ug/l	2.3	7.3	40	10		8260	cps	7/22/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	0.02	10		8260	cps	7/22/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	0.5	10		8260	cps	7/22/99
1,1-Dichloroethane	27	ug/l	1.5	4.8	85	10		8260	cps	7/22/99
1,1-Dichloroethene	20	ug/l	3.6	11	0.7	10		8260	cps	7/22/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	ns	10		8260	cps	7/22/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	7/22/99
1,2,3-Trichloropropane	< 6	ug/l	6	19	ns	10		8260	cps	7/22/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	14	10		8260	cps	7/22/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	7/22/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	0.005	10		8260	cps	7/22/99
1,2-Dichlorobenzene	< 2	ug/l	2	6.4	60	10		8260	cps	7/22/99
1,2-Dichloroethane	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	7/22/99
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	0.5	10		8260	cps	7/22/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	7/22/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6	125	10		8260	cps	7/22/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	ns	10		8260	cps	7/22/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	15	10		8260	cps	7/22/99
1,2-Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	0.02	10		8260	cps	7/22/99
2,2-Dichloropropane	< 4	ug/l	4	13	ns	10		8260	cps	7/22/99
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	cps	7/22/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	7/22/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	ns	10		8260	cps	7/22/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	7/22/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	50	10		8260	cps	7/22/99
Acetone	< 16	ug/l	16	49	200	10		8260	cps	7/22/99
Benzene	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	7/22/99
Bromobenzene	< 1.9	ug/l	1.9	6	ns	10		8260	cps	7/22/99
Bromochloromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	7/22/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	0.06	10		8260	cps	7/22/99
Bromoform	< 4.7	ug/l	4.7	15	0.44	10		8260	cps	7/22/99
Bromomethane	< 2.1	ug/l	2.1	6.7	1	10		8260	cps	7/22/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7	0.5	10		8260	cps	7/22/99
Chlorobenzene	< 2	ug/l	2	6.4	20	10		8260	cps	7/22/99
Chloroethane	< 12	ug/l	12	37	80	10		8260	cps	7/22/99
Chloroform	< 2.7	ug/l	2.7	8.6	0.6	10		8260	cps	7/22/99
Chloromethane	< 7.7	ug/l	7.7	24	0.3	10		8260	cps	7/22/99
cis-1,2-Dichloroethene	65	ug/l	2	6.4	7	10		8260	cps	7/22/99
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	0.02	10		8260	cps	7/22/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990543
 DATE REPORTED: 26-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	<2.1	ug/l	2.1	6.7	6	10		8260	cps	7/22/99
Dibromomethane	<3.5	ug/l	3.5	11	ns	10		8260	cps	7/22/99
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	200	10		8260	cps	7/22/99
Ethylbenzene	<1.6	ug/l	1.6	5.1	140	10		8260	cps	7/22/99
Hexachlorobutadiene	<2.2	ug/l	2.2	7	ns	10		8260	cps	7/22/99
Isopropyl Ether	<3.2	ug/l	3.2	10	ns	10		8260	cps	7/22/99
Isopropylbenzene	<1.6	ug/l	1.6	5.1	ns	10		8260	cps	7/22/99
m&p-xylene	<3.6	ug/l	3.6	11	124	10		8260	cps	7/22/99
Methyl-t-butyl ether	<2.1	ug/l	2.1	6.7	12	10		8260	cps	7/22/99
Methylene chloride	<7.6	ug/l	7.6	24	0.5	10		8260	cps	7/22/99
n-Butylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	7/22/99
n-Propylbenzene	<2.5	ug/l	2.5	8	ns	10		8260	cps	7/22/99
Naphthalene	<4.6	ug/l	4.6	15	8	10		8260	cps	7/22/99
o-xylene	<1.8	ug/l	1.8	5.7	124	10		8260	cps	7/22/99
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	ns	10		8260	cps	7/22/99
sec-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	7/22/99
Styrene	<2.1	ug/l	2.1	6.7	10	10		8260	cps	7/22/99
tert-Butylbenzene	<2	ug/l	2	6.4	ns	10		8260	cps	7/22/99
Tetrachloroethene	15	ug/l	2.9	9.2	0.5	10		8260	cps	7/22/99
Toluene	<3.3	ug/l	3.3	10	68.6	10		8260	cps	7/22/99
trans-1,2-Dichloroethene	25	ug/l	1.6	5.1	20	10		8260	cps	7/22/99
trans-1,3-Dichloropropene	<2	ug/l	2	6.4	0.02	10		8260	cps	7/22/99
Trichloroethene	930	ug/l	1.6	5.1	0.5	10		8260	cps	7/22/99
Trichlorofluoromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	7/22/99
Vinyl chloride	<2.1	ug/l	2.1	6.7	0.02	10		8260	cps	7/22/99

Sample Number: 15774 QC Prep Batch Number: 991521 Sample analyzed within 3 Day(s) from collection.
 Client ID: 990719WA07P Sample Description: Collection: 7/19/99 Time:

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/22/99
1,1,1-Trichloroethane	0.4	ug/l	0.23	0.73	40	1	J	8260	cps	7/22/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/22/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/22/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	7/22/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/22/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/22/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/22/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/22/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	7/22/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/22/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/22/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	7/22/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/22/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990543
 DATE REPORTED: 26-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/22/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/22/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	7/22/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/22/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	7/22/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/22/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/22/99
2-Butanone (MEK)	1.5	ug/l	1.4	4.4	90	1	J	8260	cps	7/22/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/22/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/22/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/22/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	7/22/99
Acetone	11	ug/l	1.6	4.9	200	1		8260	cps	7/22/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/22/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/22/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/22/99
Bromodichloromethane	0.77	ug/l	0.26	0.83	0.06	1	J	8260	cps	7/22/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/22/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/22/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/22/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/22/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/22/99
Chloroform	2.6	ug/l	0.27	0.86	0.6	1		8260	cps	7/22/99
Chloromethane	1.6	ug/l	0.77	2.4	0.3	1	J	8260	cps	7/22/99
cis-1,2-Dichloroethene	0.3	ug/l	0.2	0.64	7	1	J	8260	cps	7/22/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/22/99
Dibromochloromethane	0.78	ug/l	0.21	0.67	6	1		8260	cps	7/22/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/22/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/22/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/22/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/22/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/22/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/22/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	7/22/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/22/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/22/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/22/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/22/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/22/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/22/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	7/22/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/22/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/22/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990543
 DATE REPORTED: 26-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/22/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/22/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	7/22/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	7/22/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/22/99
Trichloroethene	1.8	ug/l	0.16	0.51	0.5	1		8260	cps	7/22/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/22/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/22/99

Sample Number: 15775 QC Prep Batch Number: 991521 Sample analyzed within: 3 Day(s) from collection.

Client ID: 990719WA09P Sample Description: Collection: 7/19/99 Time: 14:30

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/22/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	7/22/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/22/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/22/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	7/22/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/22/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/22/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/22/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/22/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	7/22/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/22/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/22/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	7/22/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/22/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/22/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/22/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	7/22/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/22/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	7/22/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/22/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/22/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/22/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/22/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/22/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/22/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	7/22/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/22/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/22/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/22/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/22/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	7/22/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990543
 DATE REPORTED: 26-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/22/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/22/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/22/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/22/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/22/99
Chloroform	0.69	ug/l	0.27	0.86	0.6	1	J	8260	cps	7/22/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	7/22/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	7/22/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/22/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	7/22/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/22/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/22/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/22/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/22/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/22/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/22/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	7/22/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/22/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/22/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/22/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/22/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/22/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/22/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	7/22/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/22/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/22/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/22/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/22/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	7/22/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	7/22/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/22/99
Trichloroethene	0.59	ug/l	0.16	0.51	0.5	1		8260	cps	7/22/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/22/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/22/99

Sample Number: 15776 QC Prep Batch Number: 991521 Sample analyzed within 3 Day(s) from collection.

Client ID: TRIP BLANK Sample Description: Collection: 7/19/99 Time:

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/22/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	7/22/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/22/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/22/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	7/22/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990543
 DATE REPORTED: 26-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/22/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/22/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/22/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/22/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	7/22/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/22/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/22/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	7/22/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/22/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/22/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/22/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	7/22/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/22/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	7/22/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/22/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/22/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/22/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/22/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/22/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/22/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	7/22/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/22/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/22/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/22/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/22/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	7/22/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/22/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/22/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/22/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/22/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/22/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	7/22/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	7/22/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	7/22/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/22/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	7/22/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/22/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/22/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/22/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/22/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/22/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/22/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	7/22/99



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James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990543
 DATE REPORTED: 26-Jul-99
 DATE RECEIVED: 19-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: OGTP
 PROJECT NAME: Weekly Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/22/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/22/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/22/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/22/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/22/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/22/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	7/22/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/22/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/22/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/22/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/22/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	7/22/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	7/22/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/22/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	7/22/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/22/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/22/99

Approved By: 

Date: 7/28/99

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.



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monitoring
 PROJECT NAME: Well Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 15737		QC Prep Batch Number: 991521		Sample analyzed within 2 Day(s) from collection.						
Client ID: 990714MW12B		Sample Description:		Collection: 7/14/99 Time: 10:40						
1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/16/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	7/16/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/16/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/16/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	7/16/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/16/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/16/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/16/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/16/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	7/16/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/16/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/16/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	7/16/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/16/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/16/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/16/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	7/16/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/16/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	7/16/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/16/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/16/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/16/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/16/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/16/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/16/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	7/16/99
Acetone	733	ug/l	16	49	200	10		8260	cps	7/22/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/16/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/16/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/16/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	7/16/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/16/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/16/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/16/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/16/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/16/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	7/16/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	7/16/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	7/16/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/16/99



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James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monitoring
 PROJECT NAME: Well Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	7/16/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/16/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/16/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/16/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/16/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/16/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/16/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	7/16/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/16/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/16/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/16/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/16/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/16/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/16/99
p-Isopropyltoluene	0.46	ug/l	0.18	0.57	ns	1	J	8260	cps	7/16/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/16/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/16/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/16/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/16/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	7/16/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	7/16/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/16/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	7/16/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/16/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/16/99

Sample Number: 15738 QC Prep Batch Number: 991435 Sample analyzed within 2 Day(s) from collection
 Client ID: 990714MW12D Sample Description: Collection: 7/14/99 Time: 10:20

1,1,1,2-Tetrachloroethane	< 0.4	ug/l	0.4	1.3	ns	2		8260	cps	7/16/99
1,1,1-Trichloroethane	118	ug/l	0.46	1.5	40	2		8260	cps	7/16/99
1,1,2,2-Tetrachloroethane	< 0.58	ug/l	0.58	1.8	0.02	2		8260	cps	7/16/99
1,1,2-Trichloroethane	< 0.58	ug/l	0.58	1.8	0.5	2		8260	cps	7/16/99
1,1-Dichloroethane	72	ug/l	0.3	0.95	85	2		8260	cps	7/16/99
1,1-Dichloroethene	24	ug/l	0.72	2.3	0.7	2		8260	cps	7/16/99
1,1-Dichloropropene	< 0.98	ug/l	0.98	3.1	ns	2		8260	cps	7/16/99
1,2,3-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	ns	2		8260	cps	7/16/99
1,2,3-Trichloropropane	< 1.2	ug/l	1.2	3.8	ns	2		8260	cps	7/16/99
1,2,4-Trichlorobenzene	< 0.32	ug/l	0.32	1	14	2		8260	cps	7/16/99
1,2,4-Trimethylbenzene	< 0.58	ug/l	0.58	1.8	ns	2		8260	cps	7/16/99
1,2-Dibromoethane	< 0.48	ug/l	0.48	1.5	0.005	2		8260	cps	7/16/99
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.3	60	2		8260	cps	7/16/99
1,2-Dichloroethane	1.2	ug/l	0.38	1.2	0.5	2	J	8260	cps	7/16/99



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James Chang
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2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990535
DATE REPORTED: 29-Jul-99
DATE RECEIVED: 15-Jul-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Quarterly Monitoring
PROJECT NAME: Well Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.46	ug/l	0.46	1.5	0.5	2		8260	cps	7/16/99
1,3,5-Trimethylbenzene	< 0.46	ug/l	0.46	1.5	ns	2		8260	cps	7/16/99
1,3-Dichlorobenzene	< 0.38	ug/l	0.38	1.2	125	2		8260	cps	7/16/99
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	ns	2		8260	cps	7/16/99
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.95	15	2		8260	cps	7/16/99
12Dibromo-3-chloropropan	< 1.2	ug/l	1.2	3.8	0.02	2		8260	cps	7/16/99
2,2-Dichloropropane	< 0.8	ug/l	0.8	2.5	ns	2		8260	cps	7/16/99
2-Butanone (MEK)	< 2.8	ug/l	2.8	8.8	90	2		8260	cps	7/16/99
2-Chloroethyl Vinyl Ether	< 0.58	ug/l	0.58	1.8	ns	2		8260	cps	7/16/99
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	2		8260	cps	7/16/99
4-Chlorotoluene	< 0.5	ug/l	0.5	1.6	ns	2		8260	cps	7/16/99
4-Methyl-2-Pentanone	< 1.7	ug/l	1.7	5.3	50	2		8260	cps	7/16/99
Acetone	< 3.1	ug/l	3.1	9.9	200	2		8260	cps	7/16/99
Benzene	< 0.38	ug/l	0.38	1.2	0.5	2		8260	cps	7/16/99
Bromobenzene	< 0.38	ug/l	0.38	1.2	ns	2		8260	cps	7/16/99
Bromochloromethane	< 0.68	ug/l	0.68	2.2	ns	2		8260	cps	7/16/99
Bromodichloromethane	< 0.52	ug/l	0.52	1.7	0.06	2		8260	cps	7/16/99
Bromoform	< 0.94	ug/l	0.94	3	0.44	2		8260	cps	7/16/99
Bromomethane	< 0.42	ug/l	0.42	1.3	1	2		8260	cps	7/16/99
Carbon tetrachloride	< 0.44	ug/l	0.44	1.4	0.5	2		8260	cps	7/16/99
Chlorobenzene	< 0.4	ug/l	0.4	1.3	20	2		8260	cps	7/16/99
Chloroethane	< 2.3	ug/l	2.3	7.4	80	2		8260	cps	7/16/99
Chloroform	< 0.54	ug/l	0.54	1.7	0.6	2		8260	cps	7/16/99
Chloromethane	< 1.5	ug/l	1.5	4.9	0.3	2		8260	cps	7/16/99
cis-1,2-Dichloroethene	12	ug/l	0.4	1.3	7	2		8260	cps	7/16/99
cis-1,3-Dichloropropene	< 0.48	ug/l	0.48	1.5	0.02	2		8260	cps	7/16/99
Dibromochloromethane	< 0.42	ug/l	0.42	1.3	6	2		8260	cps	7/16/99
Dibromomethane	< 0.7	ug/l	0.7	2.2	ns	2		8260	cps	7/16/99
Dichlorodifluoromethane	< 0.72	ug/l	0.72	2.3	200	2		8260	cps	7/16/99
Ethylbenzene	< 0.32	ug/l	0.32	1	140	2		8260	cps	7/16/99
Hexachlorobutadiene	< 0.44	ug/l	0.44	1.4	ns	2		8260	cps	7/16/99
Isopropyl Ether	< 0.64	ug/l	0.64	2	ns	2		8260	cps	7/16/99
Isopropylbenzene	< 0.32	ug/l	0.32	1	ns	2		8260	cps	7/16/99
m&p-xylene	< 0.72	ug/l	0.72	2.3	124	2		8260	cps	7/16/99
Methyl-t-butyl ether	< 0.42	ug/l	0.42	1.3	12	2		8260	cps	7/16/99
Methylene chloride	< 1.5	ug/l	1.5	4.8	0.5	2		8260	cps	7/16/99
n-Butylbenzene	< 0.46	ug/l	0.46	1.5	ns	2		8260	cps	7/16/99
n-Propylbenzene	< 0.5	ug/l	0.5	1.6	ns	2		8260	cps	7/16/99
Naphthalene	< 0.92	ug/l	0.92	2.9	8	2		8260	cps	7/16/99
o-xylene	< 0.36	ug/l	0.36	1.1	124	2		8260	cps	7/16/99
p-Isopropyltoluene	< 0.36	ug/l	0.36	1.1	ns	2		8260	cps	7/16/99
sec-Butylbenzene	< 0.6	ug/l	0.6	1.9	ns	2		8260	cps	7/16/99
Styrene	< 0.42	ug/l	0.42	1.3	10	2		8260	cps	7/16/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monitoring
 PROJECT NAME: Well Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	< 0.4	ug/l	0.4	1.3	ns	2		8260	cps	7/16/99
Tetrachloroethene	< 0.58	ug/l	0.58	1.8	0.5	2		8260	cps	7/16/99
Toluene	< 0.66	ug/l	0.66	2.1	68.6	2		8260	cps	7/16/99
trans-1,2-Dichloroethene	2.8	ug/l	0.32	1	20	2		8260	cps	7/16/99
trans-1,3-Dichloropropene	< 0.4	ug/l	0.4	1.3	0.02	2		8260	cps	7/16/99
Trichloroethene	3.4	ug/l	0.32	1	0.5	2		8260	cps	7/16/99
Trichlorofluoromethane	< 0.68	ug/l	0.68	2.2	ns	2		8260	cps	7/16/99
Vinyl chloride	1.1	ug/l	0.42	1.3	0.02	2	J	8260	cps	7/16/99

Sample Number: 15739 QC Prep Batch Number: 991455 Sample analyzed within 2 Day(s) from collection.
 Client ID: 990714MW13SP Sample Description: Collection: 7/14/99 Time: 10:02

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/16/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	7/16/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/16/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/16/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	7/16/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/16/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/16/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/16/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/16/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	7/16/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/16/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/16/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	7/16/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/16/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/16/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/16/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	7/16/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/16/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	7/16/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/16/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/16/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/16/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/16/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/16/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/16/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	7/16/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/16/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/16/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/16/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/16/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	7/16/99



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monitoring
 PROJECT NAME: Well Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/16/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/16/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/16/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/16/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/16/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	7/16/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	7/16/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	7/16/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/16/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	7/16/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/16/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/16/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/16/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/16/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/16/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/16/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	7/16/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/16/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/16/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/16/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/16/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/16/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/16/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	7/16/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/16/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/16/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/16/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/16/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	7/16/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	7/16/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/16/99
Trichloroethene	0.22	ug/l	0.16	0.51	0.5	1	J	8260	cps	7/16/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/16/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/16/99

Sample Number: 15740 QC Prep Batch Number: 991455 Sample analyzed within 2 Day(s) from collection.

Client ID: 990714MW16SP Sample Description: Collection: 7/14/99 Time: 11:35

1,1,1,2-Tetrachloroethane	< 0.4	ug/l	0.4	1.3	ns	2		8260	cps	7/16/99
1,1,1-Trichloroethane	< 0.46	ug/l	0.46	1.5	40	2		8260	cps	7/16/99
1,1,2,2-Tetrachloroethane	< 0.58	ug/l	0.58	1.8	0.02	2		8260	cps	7/16/99
1,1,2-Trichloroethane	< 0.58	ug/l	0.58	1.8	0.5	2		8260	cps	7/16/99
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.95	85	2		8260	cps	7/16/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monitoring
 PROJECT NAME: Well Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.72	ug/l	0.72	2.3	0.7	2		8260	cps	7/16/99
1,1-Dichloropropene	< 0.98	ug/l	0.98	3.1	ns	2		8260	cps	7/16/99
1,2,3-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	ns	2		8260	cps	7/16/99
1,2,3-Trichloropropane	< 1.2	ug/l	1.2	3.8	ns	2		8260	cps	7/16/99
1,2,4-Trichlorobenzene	< 0.32	ug/l	0.32	1	14	2		8260	cps	7/16/99
1,2,4-Trimethylbenzene	< 0.58	ug/l	0.58	1.8	ns	2		8260	cps	7/16/99
1,2-Dibromoethane	< 0.48	ug/l	0.48	1.5	0.005	2		8260	cps	7/16/99
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.3	60	2		8260	cps	7/16/99
1,2-Dichloroethane	0.82	ug/l	0.38	1.2	0.5	2	J	8260	cps	7/16/99
1,2-Dichloropropane	< 0.46	ug/l	0.46	1.5	0.5	2		8260	cps	7/16/99
1,3,5-Trimethylbenzene	< 0.46	ug/l	0.46	1.5	ns	2		8260	cps	7/16/99
1,3-Dichlorobenzene	< 0.38	ug/l	0.38	1.2	125	2		8260	cps	7/16/99
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	ns	2		8260	cps	7/16/99
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.95	15	2		8260	cps	7/16/99
1,2-Dibromo-3-chloropropan	< 1.2	ug/l	1.2	3.8	0.02	2		8260	cps	7/16/99
2,2-Dichloropropane	< 0.8	ug/l	0.8	2.5	ns	2		8260	cps	7/16/99
2-Butanone (MEK)	< 2.8	ug/l	2.8	8.8	90	2		8260	cps	7/16/99
2-Chloroethyl Vinyl Ether	< 0.58	ug/l	0.58	1.8	ns	2		8260	cps	7/16/99
2-Chlorotoluene	< 0.3	ug/l	0.3	0.95	ns	2		8260	cps	7/16/99
4-Chlorotoluene	< 0.5	ug/l	0.5	1.6	ns	2		8260	cps	7/16/99
4-Methyl-2-Pentanone	< 1.7	ug/l	1.7	5.3	50	2		8260	cps	7/16/99
Acetone	< 3.1	ug/l	3.1	9.9	200	2		8260	cps	7/16/99
Benzene	< 0.38	ug/l	0.38	1.2	0.5	2		8260	cps	7/16/99
Bromobenzene	< 0.38	ug/l	0.38	1.2	ns	2		8260	cps	7/16/99
Bromochloromethane	< 0.68	ug/l	0.68	2.2	ns	2		8260	cps	7/16/99
Bromodichloromethane	< 0.52	ug/l	0.52	1.7	0.06	2		8260	cps	7/16/99
Bromoform	< 0.94	ug/l	0.94	3	0.44	2		8260	cps	7/16/99
Bromomethane	< 0.42	ug/l	0.42	1.3	1	2		8260	cps	7/16/99
Carbon tetrachloride	< 0.44	ug/l	0.44	1.4	0.5	2		8260	cps	7/16/99
Chlorobenzene	< 0.4	ug/l	0.4	1.3	20	2		8260	cps	7/16/99
Chloroethane	< 2.3	ug/l	2.3	7.4	80	2		8260	cps	7/16/99
Chloroform	< 0.54	ug/l	0.54	1.7	0.6	2		8260	cps	7/16/99
Chloromethane	< 1.5	ug/l	1.5	4.9	0.3	2		8260	cps	7/16/99
cis-1,2-Dichloroethene	210	ug/l	0.4	1.3	7	2		8260	cps	7/16/99
cis-1,3-Dichloropropene	< 0.48	ug/l	0.48	1.5	0.02	2		8260	cps	7/16/99
Dibromochloromethane	< 0.42	ug/l	0.42	1.3	6	2		8260	cps	7/16/99
Dibromomethane	< 0.7	ug/l	0.7	2.2	ns	2		8260	cps	7/16/99
Dichlorodifluoromethane	< 0.72	ug/l	0.72	2.3	200	2		8260	cps	7/16/99
Ethylbenzene	< 0.32	ug/l	0.32	1	140	2		8260	cps	7/16/99
Hexachlorobutadiene	< 0.44	ug/l	0.44	1.4	ns	2		8260	cps	7/16/99
Isopropyl Ether	< 0.64	ug/l	0.64	2	ns	2		8260	cps	7/16/99
Isopropylbenzene	< 0.32	ug/l	0.32	1	ns	2		8260	cps	7/16/99
m&p-xylene	< 0.72	ug/l	0.72	2.3	124	2		8260	cps	7/16/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990535
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 15-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Quarterly Monitoring
 PROJECT NAME: Well Sampling

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.42	ug/l	0.42	1.3	12	2		8260	cps	7/16/99
Methylene chloride	< 1.5	ug/l	1.5	4.8	0.5	2		8260	cps	7/16/99
n-Butylbenzene	< 0.46	ug/l	0.46	1.5	ns	2		8260	cps	7/16/99
n-Propylbenzene	< 0.5	ug/l	0.5	1.6	ns	2		8260	cps	7/16/99
Naphthalene	< 0.92	ug/l	0.92	2.9	8	2		8260	cps	7/16/99
o-xylene	< 0.36	ug/l	0.36	1.1	124	2		8260	cps	7/16/99
p-Isopropyltoluene	< 0.36	ug/l	0.36	1.1	ns	2		8260	cps	7/16/99
sec-Butylbenzene	< 0.6	ug/l	0.6	1.9	ns	2		8260	cps	7/16/99
Styrene	< 0.42	ug/l	0.42	1.3	10	2		8260	cps	7/16/99
tert-Butylbenzene	< 0.4	ug/l	0.4	1.3	ns	2		8260	cps	7/16/99
Tetrachloroethene	< 0.58	ug/l	0.58	1.8	0.5	2		8260	cps	7/16/99
Toluene	< 0.66	ug/l	0.66	2.1	68.6	2		8260	cps	7/16/99
trans-1,2-Dichloroethene	3.6	ug/l	0.32	1	20	2		8260	cps	7/16/99
trans-1,3-Dichloropropene	< 0.4	ug/l	0.4	1.3	0.02	2		8260	cps	7/16/99
Trichloroethene	< 0.32	ug/l	0.32	1	0.5	2		8260	cps	7/16/99
Trichlorofluoromethane	< 0.68	ug/l	0.68	2.2	ns	2		8260	cps	7/16/99
Vinyl chloride	16	ug/l	0.42	1.3	0.02	2		8260	cps	7/16/99

Approved By: 

James Chang, Ph.D., Lab Director

Date: 7/29/99

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.




INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 990547
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 20-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: Sludge Cake
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 15784										
Client ID: 990720SC13P										
								Collection: 7/20/99	Time: 14:00	
Sample Description:										
Cadmium - ICAP	<0.006	mg/l	TC	0.006	0.02	200.7	dmd/rf	7/27/99	991533	%rec=85
Chromium, Total - ICAP	0.01	mg/l	J TC	0.012	0.04	200.7	dmd/rf	7/27/99	991533	%rec=82
Lead - ICAP	<0.051	mg/l	TC	0.051	0.16	200.7	dmd/rf	7/27/99	991533	%rec=77
Nickel - ICAP	<0.01	mg/l	TC	0.01	0.03	200.7	dmd/rf	7/27/99	991533	%rec=85
Silver - ICAP	<0.009	mg/l	TC	0.009	0.03	200.7	dmd/rf	7/27/99	991533	%rec=80
Cyanide, Amenable	<0.9	mg/Kg		0.9	2.9	335.2	van	7/28/99	991547	
Cyanide, Total	<0.9	mg/kg		0.9	2.9	9010	van	7/28/99	991546	
Free Liquids (paint filter test)	pass		#			9095	rf	7/21/99	991491	
pH (Solids)	10	s.u.	#			9045	rf	7/21/99	991492	
Solids, Total Percent	39	%	#			SM 2540	rf	7/22/99	991504	
Specific Gravity	1.2	s.u.	#			SM 2710	rf	7/23/99	991518	dup
TCLP extraction	done		#			1311	rf	7/22/99	991498	

Approved By:  Date: 7/30/99

James Chang, Ph.D., Lab Director

TC Result is expressed as concentration of TCLP extract.

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 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

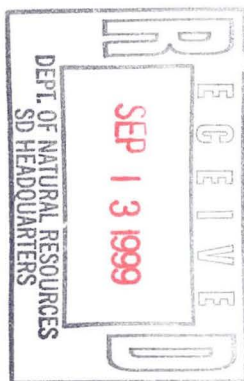
Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.

DNR Analytical Detection Limit Guidance, April 1995.



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



ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990563
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 26-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 15839		QC Prep Batch Number: 991553		Sample analyzed within 2 Day(s) from collection.						
Client ID: 990726WA01P		Sample Description:		Collection: 7/26/99 Time: 14:20						
1,1,1,2-Tetrachloroethane	< 2	ug/l	2	6.4	ns	10		8260	cps	7/28/99
1,1,1-Trichloroethane	225	ug/l	2.3	7.3	40	10		8260	cps	7/28/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	0.02	10		8260	cps	7/28/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	0.5	10		8260	cps	7/28/99
1,1-Dichloroethane	20	ug/l	1.5	4.8	85	10		8260	cps	7/28/99
1,1-Dichloroethene	13	ug/l	3.6	11	0.7	10		8260	cps	7/28/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	ns	10		8260	cps	7/28/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	7/28/99
1,2,3-Trichloropropane	< 6	ug/l	6	19	ns	10		8260	cps	7/28/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	14	10		8260	cps	7/28/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	7/28/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	0.005	10		8260	cps	7/28/99
1,2-Dichlorobenzene	< 2	ug/l	2	6.4	60	10		8260	cps	7/28/99
1,2-Dichloroethane	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	7/28/99
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	0.5	10		8260	cps	7/28/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	7/28/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6	125	10		8260	cps	7/28/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	ns	10		8260	cps	7/28/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	15	10		8260	cps	7/28/99
1,2-Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	0.02	10		8260	cps	7/28/99
2,2-Dichloropropane	< 4	ug/l	4	13	ns	10		8260	cps	7/28/99
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	cps	7/28/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	7/28/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	ns	10		8260	cps	7/28/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	7/28/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	50	10		8260	cps	7/28/99
Acetone	< 16	ug/l	16	49	200	10		8260	cps	7/28/99
Benzene	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	7/28/99
Bromobenzene	< 1.9	ug/l	1.9	6	ns	10		8260	cps	7/28/99
Bromochloromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	7/28/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	0.06	10		8260	cps	7/28/99
Bromoform	< 4.7	ug/l	4.7	15	0.44	10		8260	cps	7/28/99
Bromomethane	< 2.1	ug/l	2.1	6.7	1	10		8260	cps	7/28/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7	0.5	10		8260	cps	7/28/99
Chlorobenzene	< 2	ug/l	2	6.4	20	10		8260	cps	7/28/99
Chloroethane	< 12	ug/l	12	37	80	10		8260	cps	7/28/99
Chloroform	< 2.7	ug/l	2.7	8.6	0.6	10		8260	cps	7/28/99
Chloromethane	< 7.7	ug/l	7.7	24	0.3	10		8260	cps	7/28/99
cis-1,2-Dichloroethene	50	ug/l	2	6.4	7	10		8260	cps	7/28/99
cis-1,3-Dichloropropene	< 2.4	ug/l	2.4	7.6	0.02	10		8260	cps	7/28/99



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990563
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 26-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Dibromochloromethane	< 2.1	ug/l	2.1	6.7	6	10		8260	cps	7/28/99
Dibromomethane	< 3.5	ug/l	3.5	11	ns	10		8260	cps	7/28/99
Dichlorodifluoromethane	< 3.6	ug/l	3.6	11	200	10		8260	cps	7/28/99
Ethylbenzene	< 1.6	ug/l	1.6	5.1	140	10		8260	cps	7/28/99
Hexachlorobutadiene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	7/28/99
Isopropyl Ether	< 3.2	ug/l	3.2	10	ns	10		8260	cps	7/28/99
Isopropylbenzene	< 1.6	ug/l	1.6	5.1	ns	10		8260	cps	7/28/99
m&p-xylene	< 3.6	ug/l	3.6	11	124	10		8260	cps	7/28/99
Methyl-t-butyl ether	< 2.1	ug/l	2.1	6.7	12	10		8260	cps	7/28/99
Methylene chloride	< 7.6	ug/l	7.6	24	0.5	10		8260	cps	7/28/99
n-Butylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	7/28/99
n-Propylbenzene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	7/28/99
Naphthalene	< 4.6	ug/l	4.6	15	8	10		8260	cps	7/28/99
o-xylene	< 1.8	ug/l	1.8	5.7	124	10		8260	cps	7/28/99
p-Isopropyltoluene	< 1.8	ug/l	1.8	5.7	ns	10		8260	cps	7/28/99
sec-Butylbenzene	< 3	ug/l	3	9.5	ns	10		8260	cps	7/28/99
Styrene	< 2.1	ug/l	2.1	6.7	10	10		8260	cps	7/28/99
tert-Butylbenzene	< 2	ug/l	2	6.4	ns	10		8260	cps	7/28/99
Tetrachloroethene	7.8	ug/l	2.9	9.2	0.5	10	J	8260	cps	7/28/99
Toluene	< 3.3	ug/l	3.3	10	68.6	10		8260	cps	7/28/99
trans-1,2-Dichloroethene	18	ug/l	1.6	5.1	20	10		8260	cps	7/28/99
trans-1,3-Dichloropropene	< 2	ug/l	2	6.4	0.02	10		8260	cps	7/28/99
Trichloroethene	521	ug/l	1.6	5.1	0.5	10		8260	cps	7/28/99
Trichlorofluoromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	7/28/99
Vinyl chloride	< 2.1	ug/l	2.1	6.7	0.02	10		8260	cps	7/28/99

Sample Number: 15844

QC Prep Batch Number: 991553

Sample analyzed within: 2 Day(s) from collection.

Client ID: 990726WA07P

Sample Description:

Collection: 7/26/99 Time: 14:52

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/28/99
1,1,1-Trichloroethane	0.38	ug/l	0.23	0.73	40	1	J	8260	cps	7/28/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/28/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/28/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	7/28/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/28/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/28/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/28/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/28/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	7/28/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/28/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/28/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	7/28/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/28/99



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James Chang
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2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990563
DATE REPORTED: 29-Jul-99
DATE RECEIVED: 27-Jul-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: Weekly Sampling
PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/28/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/28/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	7/28/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/28/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	7/28/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/28/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/28/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/28/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/28/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/28/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/28/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	7/28/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/28/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/28/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/28/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/28/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	7/28/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/28/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/28/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/28/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/28/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/28/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	7/28/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	7/28/99
cis-1,2-Dichloroethene	0.33	ug/l	0.2	0.64	7	1	J	8260	cps	7/28/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/28/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	7/28/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/28/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/28/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/28/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/28/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/28/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/28/99
m&p-xylene	0.39	ug/l	0.36	1.1	124	1	J	8260	cps	7/28/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/28/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/28/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/28/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/28/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/28/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/28/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	7/28/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/28/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/28/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990563
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 27-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/28/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/28/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	7/28/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	7/28/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/28/99
Trichloroethene	1.5	ug/l	0.16	0.51	0.5	1		8260	cps	7/28/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/28/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/28/99

Sample Number: 15845

QC Prep Batch Number: 991553

Sample analyzed within 2 Day(s) from collection.

Client ID: 990726WA09P

Sample Description:

Collection: 7/26/99 Time: 14:55

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/28/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	7/28/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/28/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/28/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	7/28/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/28/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/28/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/28/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/28/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	7/28/99
1,2,4-Trimethylbenzene	0.38	ug/l	0.29	0.92	ns	1	J	8260	cps	7/28/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/28/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	7/28/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/28/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/28/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/28/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	7/28/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/28/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	7/28/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/28/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/28/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	7/28/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/28/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/28/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/28/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	7/28/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	7/28/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/28/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/28/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/28/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	7/28/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990563
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 26-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/28/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/28/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/28/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/28/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/28/99
Chloroform	0.56	ug/l	0.27	0.86	0.6	1	J	8260	cps	7/28/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	7/28/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	7/28/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/28/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	7/28/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/28/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/28/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/28/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/28/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/28/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/28/99
m&p-xylene	0.59	ug/l	0.36	1.1	124	1	J	8260	cps	7/28/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/28/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/28/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/28/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/28/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/28/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/28/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	7/28/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/28/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/28/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/28/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/28/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	7/28/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	7/28/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/28/99
Trichloroethene	0.66	ug/l	0.16	0.51	0.5	1		8260	cps	7/28/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/28/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/28/99

Sample Number: 15846 QC Prep Batch Number: 991553 Sample analyzed within: 2 Day(s) from collection

Client ID: Trip Blank Sample Description: Collection: 7/26/99 Time:

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/28/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	7/28/99
1,1,1,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	7/28/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/28/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1		8260	cps	7/28/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990563
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 26-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	7/28/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	7/28/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/28/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	7/28/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	7/28/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/28/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	7/28/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	7/28/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/28/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	7/28/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/28/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	7/28/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	7/28/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	7/28/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	7/28/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	7/28/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	7/28/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	7/28/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	7/28/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/28/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	7/28/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	7/28/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	7/28/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	7/28/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/28/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	7/28/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	7/28/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	7/28/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	7/28/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	7/28/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	7/28/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	7/28/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	7/28/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1		8260	cps	7/28/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	7/28/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	7/28/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	7/28/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	7/28/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	7/28/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	7/28/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	7/28/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	7/28/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	7/28/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990563
 DATE REPORTED: 29-Jul-99
 DATE RECEIVED: 26-Jul-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	7/28/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	7/28/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	7/28/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	7/28/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	7/28/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	7/28/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	7/28/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	7/28/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	7/28/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	7/28/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	7/28/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	7/28/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	7/28/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	7/28/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	7/28/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	7/28/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	7/28/99

Approved By: Jim Chang Date: 7/29/99
 James Chang, Ph.D., Lab Director *CPS*

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.



INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER 990563
DATE REPORTED: 31-Aug-99
DATE RECEIVED: 26-Jul-99
SAMPLE TEMP (C) Rec On Ice
PROJECT ID: Weekly Samplin
PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 15839										
Client ID: 990726WA01P										
							Collection: 7/26/99	Time: 14:20		
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd/rf	8/3/99	991590	
Barium - ICAP	0.09	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/28/99	991542	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	7/29/99	991558	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/28/99	991542	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Iron - ICAP	0.75	mg/l	RJ	0.078	0.25	200.7	dmd/rf	7/28/99	991542	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd	7/27/99	991535	
Manganese - ICAP	0.16	mg/l	RJ	0.004	0.01	200.7	dmd/rf	7/28/99	991542	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	8/4/99	991593	
Nickel - ICAP	39	ug/l	RJ	10	32	200.7	dmd/rf	7/28/99	991542	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	8/3/99	991580	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/28/99	991542	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd	8/4/99	991591	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	8/10/99	991660	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	8/10/99	991656	
pH (water)	7.1	s.u.	#			150.1	sh	7/27/99	991537	

Nova Sample Number: 15840

Client ID: 990726WA09R

							Collection: 7/26/99	Time: 14:55		
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	dmd/rf	8/3/99	991590	
Barium - ICAP	0.02	mg/l	RJ	0.002	0.006	200.7	dmd/rf	7/28/99	991542	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	dmd/rf	7/29/99	991558	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	dmd/rf	7/28/99	991542	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Iron - ICAP	0.22	mg/l	J RJ	0.078	0.25	200.7	dmd/rf	7/28/99	991542	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	dmd	7/27/99	991535	
Manganese - ICAP	0.009	mg/l	J RJ	0.004	0.01	200.7	dmd/rf	7/28/99	991542	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	dmd	8/4/99	991593	
Nickel - ICAP	14	ug/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	dmd/rf	8/3/99	991580	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	dmd/rf	7/28/99	991542	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 990563
 DATE REPORTED: 31-Aug-99
 DATE RECEIVED: 27-Jul-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: Weekly Samplin
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	dmd	8/4/99	991591	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	dmd/rf	7/28/99	991542	

Nova Sample Number: 15841
 Client ID: 990726WA02P

Collection: 7/26/99 Time: 14:25
 Sample Description:

pH (water)	7.9	s.u.	#				sh	7/27/99	991537	150.1
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Nova Sample Number: 15842
 Client ID: 990726WA03P

Collection: 7/26/99 Time: 14:26
 Sample Description:

pH (water)	11	s.u.	#				sh	7/27/99	991537	150.1
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Nova Sample Number: 15843
 Client ID: 990726WA05P

Collection: 7/26/99 Time: 14:50
 Sample Description:

pH (water)	6.6	s.u.	#				sh	7/27/99	991537	150.1
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Nova Sample Number: 15845
 Client ID: 990726WA09P

Collection: 7/26/99 Time: 14:55
 Sample Description:

Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	8/10/99	991660	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	8/10/99	991656	
pH (water)	7.9	s.u.	#				sh	7/27/99	991537	150.1

Nova Sample Number: 15963
 Client ID: 990727WA01P

Collection: 7/27/99 Time: 15:00
 Sample Description:

Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/28/99	991586	
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Nova Sample Number: 15964
 Client ID: 990727WA09P

Collection: 7/27/99 Time: 14:55
 Sample Description:

Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	7/28/99	991586	
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INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 990563
DATE REPORTED: 31-Aug-99
DATE RECEIVED: 02-Aug-99
SAMPLE TEMP (C)
PROJECT ID:
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
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Approved By: 

James Chang, Ph.D., Lab Director

Date: 8/2/99

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 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

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.