

January 15, 2000

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

Re: Monthly Monitoring Report for the Oconomowoc Groundwater Treatment Facility

Dear Mr. Kozol:

Attached is the Monthly Monitoring Report for December, 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**

January 15, 2000

1.0 Introduction

This report summarizes the monthly effluent monitoring results for the Oconomowoc Electroplating Groundwater Treatment Plant (OEGTP) for December, 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.

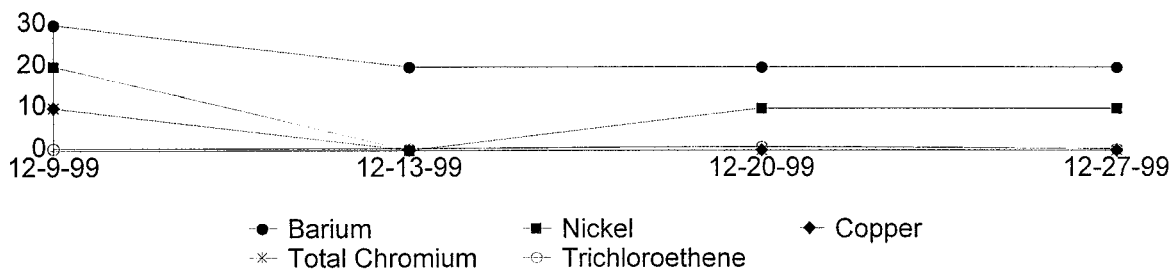
1.3 Effluent Monitoring

Weekly monitoring was conducted on December 9, 13, 20, and 27. The weekly samples for December were tested by APL, Inc. The results of the effluent monitoring tests for the samples taken in December showed no exceedences of the WDNR effluent discharge permit except for TCE on the December 20 sampling. The possible cause of the high level 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 Extraction Well Monitoring

A fourth round of Extraction Well sampling was conducted on December 1. The Extraction Well sampling is conducted on a quarterly basis. The results of the Extraction Wells' analyses are enclosed with this report.

1.6 Monitoring Well Sampling

Another round of Monitoring Well sampling was conducted on December 6 and 7. 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

Paul Kozol, of the WDNR, was conducting an experiment to see how long one Carbon filter would last before break-through of TCE that is greater than the permit limit of 0.5 ug/l. The other GAC was put in line and the original GAC was backwashed with effluent and left in the stand-by position on November 12. The spent Carbon was changed out of the GAC's on October 26-29. Both GAC's were put in line on December 16 because of the increased flow through the treatment plant that occurred after changing out the metal piping with PVC piping in the metals package. The December 20 sampling result was 0.83 ug/l in the effluent. The high level of TCE may be due to installing the original Carbon filter in the lag position (TCE level of 0.58 ug/l) after it was backwashed. Mr. Kozol authorized the treatment plant to continue to operate. The December 27 sampling result was 0.3 ug/l in the effluent.

3.0 Treatment Plant Shut Downs

The Treatment Plant was shut down two times for a total of 18.75 hours in December, 1999. The shut downs were due to a Power Outage and Scheduled Maintenance. Table 1 shows the summary of the plant down times for the month of December, 1999.

Table 1 - Plant Down Time Summary

Date(s)	Number Hours Shut Down	Reason
12-6/7-99	17.25	Scheduled Maintenance Shut Down
12-21-99	1.5	Shut Down for Power Outage
TOTAL	18.75	

3.1 Shut Down Due To Scheduled Maintenance

On December 6, the Extraction Wells (EW-1/2/3/4/5) were shut down at 9:00 A.M. and a dilute inhibited Muriatic acid solution was injected into the piping and allowed to react overnight. While injecting the acid solution, it was discovered that the flexible connector to EW-5 had failed and it was temporarily replaced with a pipe nipple until the backordered flexible connectors arrive. At 6:00 P.M., the treatment plant shut down automatically due to the Equalization Tank (EQT-100) level reaching <25%. At 5:30 A.M., on December 7, the treatment plant was restarted in the manual mode until 7:45 A.M., to lower the EQT-100 level to <10%. The EQT-100 level was lowered to <5% using the Equalization Tank Solids Pump (ESP-121) to allow the EQT-100 discharge line to be dismantled so that a flange could be welded in place. After the flange was attached, the rest of the metal piping to the Metals Package was replaced with PVC piping and the EW's were activated. The other work performed was to remove the sludge from the Rapid Mix Tanks (RMT-301/451), Flocculation Tanks (FT-311/461), and Clarifier (C-400), replace Sump Pumps (SP-960A/B) metal piping with PVC piping, repair acid leaks, and complete the Monitor Wells sampling. All of the metal piping from the EQT-100 throughout the Metals Package is completed. The metal piping from the Sump Pumps (SP-960A/B) was removed and replaced except for a small section of 2" line on SP-960A. The 2" line was under estimated for length and on back order. The acid leak on the Sulfuric Acid Pump (SAP-752) piping was resealed but the other leaks could not be addressed because of parts being on back order, also. The Monitoring Wells sampling was completed. On December 7, at 1:30 P.M., the treatment system had restarted in the automatic mode after the EQT-100 level reached >55%. APL, WDNR, and USACE were notified. The total down time was 17.25 hours.

3.2 Shut Down for Power Outage

On December 21, there was a power outage for 1.5 hours. When the power came back on, the Air Compressor (AC-950) would not restart and the office copier would not function. After attempting to restart the AC-950, the operators could not shut it off without opening it's circuit

breaker. The supplier was notified and a technician was to arrive the next morning. The treatment plant was kept operating with the Tertiary Filtration System (TF-600) shut down to reduce the need for air and to keep the Extraction Wells (EW's) functioning. The ambient air temperature was <0 degrees F. APL, WDNR, and USACE were notified. On December 22, an a Xerox technician walked the operator through the procedure to reset the office copier. The service technician arrived to inspect the AC-950 and found that the pressure switch had burned up, several fuses were blown, and the transformer coils were burned up. He had to go back to his supply house to get the parts and returned in the afternoon. He replaced the faulty parts and got both compressors to operate but they would not alternate back and forth. On December 23, he was recontacted and stated that he would replace the relays on January 4. All processes can operate with only one compressor in line. Total down time was 1.5 hours.

4.0 Summary

Groundwater Treatment Plant effluent monitoring was conducted on December 9, 13, 20, and 27 of 1999. Another round of Extraction and Monitoring Wells' sampling was conducted in December 1999. 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 December 20. See Chart 1, Section 1.4 for *Important Indicator Parameters*.

During the month of December, 1999, the plant were shut downs two times for a total of 18.75 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 January 15, 2000.

OCONOMOWOC GROUNDWATER TREATMENT PLANT

Weekly Sampling Results

Date: 12-9-99

Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7.4	11	8.3	N/A	NT	Monitor
TSS	3	NT	NT	NT	ND	Monitor
Arsenic	ND	ND	ND	NT	ND	5
Barium	110	20	20	NT	30	400
Cadmium	ND	ND	ND	NT	ND	0.5
Cadmium Total	ND	ND	ND	NT	ND	Monitor
Recoverable						
Chromium +6	ND	NT	NT	NT	ND	Monitor
Chromium Total	ND	ND	ND	NT	10	10
Copper	ND	ND	ND	NT	10	Monitor
Iron	1000	ND	ND	NT	290	Monitor
Lead	ND	ND	ND	NT	ND	1.5
Manganese	150	5	5	NT	6	Monitor
Mercury	ND	ND	ND	NT	ND	0.2
Nickel	40	13	10	NT	20	20
Selenium	13	ND	ND	NT	ND	10
Silver	ND	ND	ND	NT	ND	10
Thallium	ND	ND	ND	NT	ND	0.4
Zinc	ND	ND	ND	NT	ND	Monitor
Cyanide	ND	ND	NT	NT	ND	40
Cyanide Free	ND	ND	NT	NT	ND	Monitor
1,1-Dichloroethane	35	NT	ND	NT	ND	85
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5
1,1-Dichloroethene	22	NT	ND	NT	ND	0.7
1,2-Dichloroethene Cis	55	NT	0.39	NT	ND	7
1,2-Dichloroethene Trans	16	NT	ND	NT	ND	20
Ethylbenzene	ND	NT	ND	NT	ND	140
Methylene Chloride	ND	NT	ND	NT	ND	0.5
Tetrachloroethene	6.1	NT	ND	NT	ND	0.5
Toluene	ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	257	NT	0.34	NT	ND	40
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5
TCE	629	NT	1.8	NT	0.47	0.5
Vinyl Chloride	ND	NT	ND	NT	ND	0.2
Xylene Total	ND	NT	ND	NT	ND	124
COD	20	NT	NT	NT	9.4	Monitor
Phosphorus Total	NT	NT	NT	NT	ND	Monitor
Nitrate + Nitrite	NT	NT	NT	NT	0.4	Monitor
Ammonia Nitrogen	NT	NT	NT	NT	ND	Monitor

mg/l

mg/l

mg/l

mg/l

mg/l

OCONOMOWOC GROUNDWATER TREATMENT PLANT

Weekly Sampling Results

Date: 12-13-99

Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7.2	11	N/A	N/A	8.2	Monitor
TSS	NT	NT	NT	NT	NT	Monitor
Arsenic	ND	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	880	NT	NT	NT	90	Monitor
Lead	ND	NT	NT	NT	ND	1.5
Manganese	150	NT	NT	NT	4	Monitor
Mercury	ND	NT	NT	NT	ND	0.2
Nickel	30	NT	NT	NT	ND	20
Selenium	16	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	37	NT	ND	NT	ND	85
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5
1,1-Dichloroethene	22	NT	ND	NT	ND	0.7
1,2-Dichloroethene Cis	61	NT	0.38	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	6	NT	ND	NT	ND	0.5
Toluene	ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	253	NT	0.38	NT	ND	40
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5
TCE	609	NT	1.8	NT	0.44	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: 12-20-99

Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7.2	11	N/A	N/A	NT	Monitor
TSS	NT	NT	NT	NT	NT	Monitor
Arsenic	ND	NT	NT	NT	ND	5
Barium	100	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	940	NT	NT	NT	80	Monitor
Lead	ND	NT	NT	NT	ND	1.5
Manganese	150	NT	NT	NT	ND	Monitor
Mercury	ND	NT	NT	NT	ND	0.2
Nickel	30	NT	NT	NT	10	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	8	NT	NT	NT	ND	40
Cyanide Free	ND	NT	NT	NT	ND	Monitor
1,1-Dichloroethane	39	NT	0.44	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	59	NT	0.61	NT	ND	7
1,2-Dichloroethene Trans	18	NT	0.31	NT	ND	20
Ethylbenzene	ND	NT	0.22	NT	ND	140
Methylene Chloride	ND	NT	ND	NT	ND	0.5
Tetrachloroethene	7.2	NT	ND	NT	ND	0.5
Toluene	ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	243	NT	0.91	NT	0.31	40
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5
TCE	608	NT	2.6	NT	0.83	0.5
Vinyl Chloride	2.4	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: 12-27-99

Parameter	Influent	After FT-311	After Stripper	Between Carbon Filters	Effluent	WDNR Site Permit ug/l
pH	7.2	11	N/A	N/A	7.7	Monitor
TSS	NT	NT	NT	NT	NT	Monitor
Arsenic	ND	NT	NT	NT	ND	5
Barium	100	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	1100	NT	NT	NT	80	Monitor
Lead	ND	NT	NT	NT	ND	1.5
Manganese	120	NT	NT	NT	ND	Monitor
Mercury	ND	NT	NT	NT	ND	0.2
Nickel	20	NT	NT	NT	10	20
Selenium	15	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	7	NT	NT	NT	ND	40
Cyanide Free	ND	NT	NT	NT	ND	Monitor
1,1-Dichloroethane	42	NT	ND	NT	ND	85
1,2-Dichloroethane	ND	NT	ND	NT	ND	0.5
1,1-Dichloroethene	16	NT	ND	NT	ND	0.7
1,2-Dichloroethene Cis	62	NT	ND	NT	ND	7
1,2-Dichloroethene Trans	16	NT	ND	NT	ND	20
Ethylbenzene	ND	NT	ND	NT	ND	140
Methylene Chloride	ND	NT	ND	NT	ND	0.5
Tetrachloroethene	6.8	NT	ND	NT	ND	0.5
Toluene	ND	NT	ND	NT	ND	68
1,1,1-Trichloroethane	200	NT	ND	NT	ND	40
1,1,2-Trichloroethane	ND	NT	ND	NT	ND	0.5
TCE	560	NT	ND	NT	0.3	0.5
Vinyl Chloride	2.2	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

MONITORING WELL	(ug/l)					
	Date: DEC.1999					
Parameter	MW02DP	MW03SP	MW05P	MW05DP	MW06P	MW11BP
pH	7.18	DRY	DRY	7.44	DRY	COVERED
Conductivity	997	NT	NT	594	NT	NT
Arsenic	ND	NT	NT	ND	NT	NT
Barium	80	NT	NT	70	NT	NT
Cadmium	ND	NT	NT	ND	NT	NT
Cadmium Total Recoverable	ND	NT	NT	ND	NT	NT
Chromium +6	ND	NT	NT	ND	NT	NT
Chromium Total	ND	NT	NT	10	NT	NT
Copper	ND	NT	NT	ND	NT	NT
Iron	3400	NT	NT	2700	NT	NT
Lead	1.8	NT	NT	1.7	NT	NT
Manganese	80	NT	NT	90	NT	NT
Mercury	ND	NT	NT	ND	NT	NT
Nickel	ND	NT	NT	ND	NT	NT
Selenium	20	NT	NT	16	NT	NT
Silver	ND	NT	NT	ND	NT	NT
Thallium	ND	NT	NT	ND	NT	NT
Zinc	20	NT	NT	20	NT	NT
Cyanide	ND	NT	NT	ND	NT	NT
Cyanide Free	ND	NT	NT	ND	NT	NT
1,1-Dichloroethane	0.58	NT	NT	45	NT	NT
1,2-Dichloroethane	ND	NT	NT	ND	NT	NT
1,1-Dichloroethene	ND	NT	NT	5.7	NT	NT
1,2-Dichloroethene Cis	2.2	NT	NT	78	NT	NT
1,2-Dichloroethene Trans	ND	NT	NT	3.9	NT	NT
Ethylbenzene	ND	NT	NT	ND	NT	NT
Methylene Chloride	ND	NT	NT	ND	NT	NT
Tetrachloroethene	ND	NT	NT	ND	NT	NT
Toluene	ND	NT	NT	ND	NT	NT
1,1,1-Trichloroethane	ND	NT	NT	ND	NT	NT
1,1,2-Trichloroethane	ND	NT	NT	ND	NT	NT
TCE	0.77	NT	NT	609	NT	NT
Vinyl Chloride	0.28	NT	NT	ND	NT	NT
Xylene Total	ND	NT	NT	ND	NT	NT
Temperature (C)	11.7	NT	NT	10.7	NT	NT

uMHOS/CM

MW05P, MW06P, & MW03SP Were Too Dry To Sample.

OCONOMOWOC GROUNDWATER TREATMENT PLANT

MONITORING WELL	(ug/l)					
	Date: DEC. 1999					
Parameter	MW12BP	MW12DP	MW13SP	MW14DP	MW15DP	MW16SP
pH	7.45	7.6	6.48	7.02	6.99	7.6
Conductivity	778	837	625	500	1105	1664
Arsenic	ND	ND	19	ND	ND	ND
Barium	70	70	90	40	100	50
Cadmium	ND	ND	ND	ND	ND	2.8
Cadmium Total	ND	ND	ND	ND	ND	2.7
Recoverable						
Chromium +6	ND	ND	ND	ND	ND	ND
Chromium Total	ND	10	850	ND	ND	40
Copper	ND	2700	70	ND	ND	10
Iron	950	4100	37000	360	190	34000
Lead	ND	2.2	16	1.8	ND	3.1
Manganese	30	70	400	70	210	520
Mercury	ND	0.3	ND	ND	ND	ND
Nickel	13000	40	130	ND	ND	60
Selenium	ND	5.5	31	ND	ND	12
Silver	ND	ND	ND	ND	ND	ND
Thallium	7.3	17	ND	ND	ND	15
Zinc	20	ND	100	40	20	200
Cyanide	ND	ND	ND	ND	ND	ND
Cyanide Free	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	100	ND	ND	ND	ND
1,2-Dichloroethane	0.59	1.6	ND	ND	ND	0.65
1,1-Dichloroethene	ND	46	ND	ND	ND	ND
1,2-Dichloroethene Cis	0.48	25	ND	ND	3.8	272
1,2-Dichloroethene Trans	ND	7.1	ND	ND	0.45	4.3
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	0.91	161	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	0.42	ND	ND	ND	ND
TCE	0.22	19	ND	ND	30	ND
Vinyl Chloride	ND	0.76	ND	ND	ND	60
Xylene Total	ND	ND	ND	ND	ND	ND
Temperature (C)	10.5	10	9.7	12.5	13.1	8.7

uMHOS/CM

OCONOMOWOC GROUNDWATER TREATMENT PLANT

EXTRACTION WELLS						(ug/l)
Parameter	EW-1	EW-2	EW-3	EW-4	EW-5	VW-1
pH	7.2	7.2	7.2	7.1	7.3	7.5
Arsenic	17	24	14	ND	14	ND
Barium	160	80	140	140	130	370
Cadmium	1.1	0.86	ND	ND	ND	ND
Cadmium Total Recoverable	0.76	ND	ND	ND	ND	ND
Chromium +6	ND	ND	ND	ND	ND	ND
Chromium Total	ND	ND	ND	ND	ND	ND
Copper	90	200	100	30	30	280
Iron	4200	940	2400	2900	3100	2400
Lead	ND	4.4	89	25	12	1.8
Manganese	240	80	80	180	80	20
Mercury	ND	ND	ND	ND	ND	ND
Nickel	40	40	50	50	12	ND
Selenium	ND	27	64	ND	ND	70
Silver	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND
Zinc	60	320	1100	120	70	170
Cyanide	ND	ND	ND	ND	9	ND
Cyanide Free	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	2.5	17	41	123	ND
1,2-Dichloroethane	ND	ND	ND	ND	4.6	ND
1,1-Dichloroethene	ND	ND	5.2	78	22	ND
1,2-Dichloroethene Cis	0.69	12	32	129	128	ND
1,2-Dichloroethene Trans	ND	4.1	2.4	93	11	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	2.2	ND	ND	ND
Tetrachloroethene	ND	ND	ND	44	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	0.45	10	931	260	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
TCE	5.6	16	139	1850	985	ND
Vinyl Chloride	ND	ND	0.56	5.4	8.8	ND
Methyl-T-Butyl Ether	0.37	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	6.8	ND
Benzene	ND	ND	ND	ND	4	ND
Dichlorodifluoromethane	ND	ND	ND	ND	9.2	ND
Trichlorodifluoromethane	ND	ND	ND	ND	19	ND
Carbon Tetrachloride	ND	ND	1.5	128	39	ND
Chloroethane	ND	ND	ND	87	ND	ND
Xylene Total	ND	ND	ND	ND	ND	ND

MONITOR WELL DEPTHS

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

MONITOR WELL DEPTHS

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS	WATER LEVEL		FEET			
DATE	MW12BP	MW12DP	MW13SP	MW14DP	MW15DP	MW16SP
July 31, 1998	4.75	3.78	5.75	4.80	10.49	UNACCESS.
Aug. 31, 1998	5.64	4.48	6.38	4.80	11.64	UNACCESS.
Sept. 17, 1998	5.35	3.20	6.31	4.86	11.10	UNACCESS.
Oct. 7, 1998	4.75	3.65	5.79	4.75	10.60	UNACCESS.
Nov. 23, 1998	4.73	3.70	5.82	4.56	10.46	UNACCESS.
Dec. 15, 1998	4.10	3.00	5.85	4.70	9.95	UNACCESS.
Jan. 18, 1999	4.70	3.70	5.70	5.00	10.50	UNACCESS.
Feb. 3, 1999	3.50	2.48	4.85	3.00	9.27	UNACCESS.
Mar. 3-4, & 16, 1999	3.50	2.70	5.15	3.40	9.20	2.95
Apr. 15, 1999	3.61	3.20	4.84	2.60	9.25	2.63
May 10, 1999	3.85	3.05	4.95	2.80	9.45	3.80
June 18, 1999	3.71	3.75	4.87	2.49	9.29	2.81
July 13-14, 1999	4.50	3.65	5.74	3.82	10.19	3.05
August 06, 1999	4.62	3.59	5.48	3.26	10.17	3.32
Sept. 13, 15, 20, 23, '99	6.00	4.90	6.51	4.80	10.95	4.17
October 06, 1999	4.80	3.80	6.00	4.56	10.70	3.40
November 9, 1999	5.80	4.72	6.52	5.63	11.50	5.64
December 6-7, 1999	4.41	3.50	6.17	5.30	10.28	3.10

FLOW FROM EXTRACTION WELLS

YEAR: 1999				
MONTH: Dec. DAY	FE-100 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	3,446,930.00	33,775.00	0.034	SHUT DOWN
2	3,480,705.00	34,119.00	0.034	
3	3,514,824.00	19,710.00	0.020	SHUT DOWN
4	3,534,534.00	39,066.00	0.039	
5	3,573,600.00	33,417.00	0.033	
6	3,607,017.00	6,646.00	0.007	SHUT DOWN
7	3,613,663.00	27,686.00	0.028	SHUT DOWN
8	3,641,349.00	27,310.00	0.027	SHUT DOWN
9	3,668,659.00	41,047.00	0.041	
10	3,709,706.00	30,634.00	0.031	
11	3,740,340.00	31,261.00	0.031	
12	3,771,601.00	43,337.00	0.043	
13	3,814,938.00	29,420.00	0.029	
14	3,844,358.00	40,964.00	0.041	
15	3,885,322.00	32,070.00	0.032	
16	3,917,392.00	38,015.00	0.038	
17	3,955,407.00	22,128.00	0.022	
18	3,977,535.00	39,466.00	0.039	
19	4,017,001.00	38,554.00	0.039	
20	4,055,555.00	34,751.00	0.035	
21	4,090,306.00	32,976.00	0.033	SHUT DOWN
22	4,123,282.00	32,868.00	0.033	
23	4,156,150.00	20,965.00	0.021	
24	4,177,115.00	45,751.00	0.046	
25	4,222,866.00	18,493.00	0.018	
26	4,241,359.00	31,610.00	0.032	
27	4,272,969.00	44,473.00	0.044	
28	4,317,442.00	28,369.00	0.028	
29	4,345,811.00	26,435.00	0.026	
30	4,372,246.00	34,896.00	0.035	
31	4,407,142.00	27,185.00	0.027	
January 01	4,434,327.00			
TOTAL AVERAGE			0.986 0.032	

FLOW FROM EQT-100

YEAR: 1999			
MONTH: Dec. DAY	FE-112 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD
1	6,141,852.00	38,455.00	0.038
2	6,180,307.00	43,742.00	0.044
3	6,224,049.00	22,419.00	0.022
4	6,246,468.00	47,889.00	0.048
5	6,294,357.00	48,492.00	0.048
6	6,342,849.00	8,859.00	0.009
7	6,351,708.00	45,956.00	0.046
8	6,397,664.00	32,952.00	0.033
9	6,430,616.00	48,783.00	0.049
10	6,479,399.00	32,907.00	0.033
11	6,512,306.00	34,222.00	0.034
12	6,546,528.00	49,671.00	0.050
13	6,596,199.00	36,158.00	0.036
14	6,632,357.00	48,953.00	0.049
15	6,681,310.00	37,249.00	0.037
16	6,718,559.00	44,493.00	0.044
17	6,763,052.00	27,485.00	0.027
18	6,790,537.00	44,267.00	0.044
19	6,834,804.00	44,376.00	0.044
20	6,879,180.00	42,860.00	0.043
21	6,922,040.00	38,938.00	0.039
22	6,960,978.00	39,887.00	0.040
23	7,000,865.00	24,667.00	0.025
24	7,025,532.00	54,330.00	0.054
25	7,079,862.00	21,940.00	0.022
26	7,101,802.00	37,665.00	0.038
27	7,139,467.00	53,224.00	0.053
28	7,192,691.00	33,892.00	0.034
29	7,226,583.00	30,814.00	0.031
30	7,257,397.00	38,086.00	0.038
31	7,295,483.00	31,930.00	0.032
January 01	7,327,413.00		
		TOTAL	1.184
		AVERAGE	0.038

SHUT DOWN
SHUT DOWN

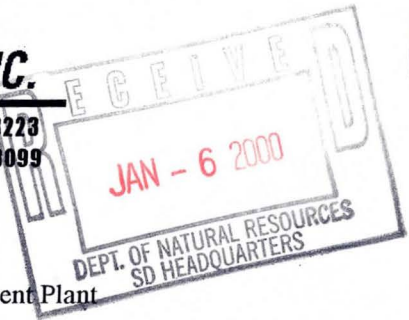
SHUT DOWN

EFFLUENT FLOW FROM PLANT

YEAR: 1999					
MONTH: Dec. DAY	NPDES STATION TOTALIZER	TOTAL DAY'S FLOW (GAL.)	X2	DAILY FLOW MGD	
1	1,784,965.00	16411.00	32,822.00	0.033	
2	1,801,376.00	17357.00	34,714.00	0.035	
3	1,818,733.00	11330.00	22,660.00	0.023	
4	1,830,063.00	20845.00	41,690.00	0.042	
5	1,850,908.00	20210.00	40,420.00	0.040	
6	1,871,118.00	3667.00	7,334.00	0.007	SHUT DOWN
7	1,874,785.00	10991.00	21,982.00	0.022	SHUT DOWN
8	1,885,776.00	13753.00	27,506.00	0.028	
9	1,899,529.00	22703.00	45,406.00	0.045	
10	1,922,232.00	14160.00	28320.00	0.028	
11	1,936,392.00	16538.00	33076.00	0.033	
12	1,952,930.00	18422.00	36844.00	0.037	
13	1,971,352.00	17414.00	34828.00	0.035	
14	1,988,766.00	22588.00	45176.00	0.045	
15	2,011,354.00	16116.00	32232.00	0.032	
16	2,027,470.00	20280.00	40560.00	0.041	
17	2,047,750.00	12692.00	25384.00	0.025	
18	2,060,442.00	19704.00	39408.00	0.039	
19	2,080,146.00	19973.00	39946.00	0.040	
20	2,100,119.00	14982.00	29964.00	0.030	
21	2,115,101.00	18658.00	37316.00	0.037	SHUT DOWN
22	2,133,759.00	15342.00	30684.00	0.031	
23	2,149,101.00	12331.00	24662.00	0.025	
24	2,161,432.00	24126.00	48252.00	0.048	
25	2,185,558.00	9278.00	18556.00	0.019	
26	2,194,836.00	16978.00	33956.00	0.034	
27	2,211,814.00	22927.00	45854.00	0.046	
28	2,234,741.00	14646.00	29292.00	0.029	
29	2,249,387.00	13289.00	26578.00	0.027	
30	2,262,676.00	17,307.00	34,614.00	0.035	
31	2,279,983.00	13,232.00	26,464.00	0.026	
January 01	2,293,215.00				
			TOTAL	1.017	
			AVERAGE	0.033	



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



ORGANIC REPORT

WDNR# 241340550

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

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 17886 QC Prep Batch Number: 992867 Sample analyzed within 2 Day(s) from collection. Client ID: 991207MW15D Sample Description: Collection: 12/7/99 Time: 09:00										
1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/9/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/9/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/9/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/9/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/9/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/9/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/9/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/9/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/9/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/9/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/9/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/9/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/9/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/9/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/9/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/9/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/9/99
Chlorobenzene	4.7	ug/l	0.2	0.64	20	1		8260	cps	12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/9/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/9/99
cis-1,2-Dichloroethene	3.8	ug/l	0.2	0.64	7	1		8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/9/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 PROJECT NAME: OGTP

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	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99
Methyl-t-butyl ether	0.81	ug/l	0.21	0.67	12	1		8260	cps	12/9/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/9/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	0.45	ug/l	0.16	0.51	20	1	J	8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	30	ug/l	0.16	0.51	0.5	1		8260	cps	12/9/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/9/99

Sample Number: 17887 QC Prep Batch Number: 992867 Sample analyzed within 2 Day(s) from collection.
 Client ID: 991207MW16SP Sample Description: Collection: 12/7/99 Time: 09:40

1,1,1,2-Tetrachloroethane	<0.5	ug/l	0.5	1.6	ns	2.5		8260	cps	12/9/99
1,1,1-Trichloroethane	<0.58	ug/l	0.58	1.8	40	2.5		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	<0.73	ug/l	0.73	2.3	0.02	2.5		8260	cps	12/9/99
1,1,2-Trichloroethane	<0.73	ug/l	0.73	2.3	0.5	2.5		8260	cps	12/9/99
1,1-Dichloroethane	<0.38	ug/l	0.38	1.2	85	2.5		8260	cps	12/9/99
1,1-Dichloroethene	<0.9	ug/l	0.9	2.9	0.7	2.5		8260	cps	12/9/99
1,1-Dichloropropene	<1.2	ug/l	1.2	3.9	ns	2.5		8260	cps	12/9/99
1,2,3-Trichlorobenzene	<0.55	ug/l	0.55	1.7	ns	2.5		8260	cps	12/9/99
1,2,3-Trichloropropane	<1.5	ug/l	1.5	4.8	ns	2.5		8260	cps	12/9/99
1,2,4-Trichlorobenzene	<0.4	ug/l	0.4	1.3	14	2.5		8260	cps	12/9/99
1,2,4-Trimethylbenzene	<0.73	ug/l	0.73	2.3	ns	2.5		8260	cps	12/9/99
1,2-Dibromoethane	<0.6	ug/l	0.6	1.9	0.005	2.5		8260	cps	12/9/99
1,2-Dichlorobenzene	<0.5	ug/l	0.5	1.6	60	2.5		8260	cps	12/9/99
1,2-Dichloroethane	0.65	ug/l	0.48	1.5	0.5	2.5	J	8260	cps	12/9/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991015
DATE REPORTED: 10-Dec-99
DATE RECEIVED: 08-Dec-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling #2
PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloropropane	<0.58	ug/l	0.58	1.8	0.5	2.5		8260	cps	12/9/99
1,3,5-Trimethylbenzene	<0.58	ug/l	0.58	1.8	ns	2.5		8260	cps	12/9/99
1,3-Dichlorobenzene	<0.48	ug/l	0.48	1.5	125	2.5		8260	cps	12/9/99
1,3-Dichloropropane	<0.53	ug/l	0.53	1.7	ns	2.5		8260	cps	12/9/99
1,4-Dichlorobenzene	<0.38	ug/l	0.38	1.2	15	2.5		8260	cps	12/9/99
1,2-Dibromo-3-chloropropan	<1.5	ug/l	1.5	4.7	0.02	2.5		8260	cps	12/9/99
2,2-Dichloropropane	<1	ug/l	1	3.2	ns	2.5		8260	cps	12/9/99
2-Butanone (MEK)	<3.5	ug/l	3.5	11	90	2.5		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	<0.73	ug/l	0.73	2.3	ns	2.5		8260	cps	12/9/99
2-Chlorotoluene	<0.38	ug/l	0.38	1.2	ns	2.5		8260	cps	12/9/99
4-Chlorotoluene	<0.63	ug/l	0.63	2	ns	2.5		8260	cps	12/9/99
4-Methyl-2-Pentanone	<2.1	ug/l	2.1	6.7	50	2.5		8260	cps	12/9/99
Acetone	<3.9	ug/l	3.9	12	200	2.5		8260	cps	12/9/99
Benzene	<0.48	ug/l	0.48	1.5	0.5	2.5		8260	cps	12/9/99
Bromobenzene	<0.48	ug/l	0.48	1.5	ns	2.5		8260	cps	12/9/99
Bromochloromethane	<0.85	ug/l	0.85	2.7	ns	2.5		8260	cps	12/9/99
Bromodichloromethane	<0.65	ug/l	0.65	2.1	0.06	2.5		8260	cps	12/9/99
Bromoform	<1.2	ug/l	1.2	3.7	0.44	2.5		8260	cps	12/9/99
Bromomethane	<0.53	ug/l	0.53	1.7	1	2.5		8260	cps	12/9/99
Carbon tetrachloride	<0.55	ug/l	0.55	1.7	0.5	2.5		8260	cps	12/9/99
Chlorobenzene	<0.5	ug/l	0.5	1.6	20	2.5		8260	cps	12/9/99
Chloroethane	<2.9	ug/l	2.9	9.2	80	2.5		8260	cps	12/9/99
Chloroform	<0.68	ug/l	0.68	2.1	0.6	2.5		8260	cps	12/9/99
Chloromethane	<1.9	ug/l	1.9	6.1	0.3	2.5		8260	cps	12/9/99
cis-1,2-Dichloroethene	272	ug/l	0.5	1.6	7	2.5		8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.6	ug/l	0.6	1.9	0.02	2.5		8260	cps	12/9/99
Dibromochloromethane	<0.53	ug/l	0.53	1.7	6	2.5		8260	cps	12/9/99
Dibromomethane	<0.88	ug/l	0.88	2.8	ns	2.5		8260	cps	12/9/99
Dichlorodifluoromethane	<0.9	ug/l	0.9	2.9	200	2.5		8260	cps	12/9/99
Ethylbenzene	<0.4	ug/l	0.4	1.3	140	2.5		8260	cps	12/9/99
Hexachlorobutadiene	<0.55	ug/l	0.55	1.7	ns	2.5		8260	cps	12/9/99
Isopropyl Ether	<0.8	ug/l	0.8	2.5	ns	2.5		8260	cps	12/9/99
Isopropylbenzene	<0.4	ug/l	0.4	1.3	ns	2.5		8260	cps	12/9/99
m&p-xylene	<0.9	ug/l	0.9	2.9	124	2.5		8260	cps	12/9/99
Methyl-t-butyl ether	<0.53	ug/l	0.53	1.7	12	2.5		8260	cps	12/9/99
Methylene chloride	<1.9	ug/l	1.9	6	0.5	2.5		8260	cps	12/9/99
n-Butylbenzene	<0.58	ug/l	0.58	1.8	ns	2.5		8260	cps	12/9/99
n-Propylbenzene	<0.63	ug/l	0.63	2	ns	2.5		8260	cps	12/9/99
Naphthalene	<1.2	ug/l	1.2	3.7	8	2.5		8260	cps	12/9/99
o-xylene	<0.45	ug/l	0.45	1.4	124	2.5		8260	cps	12/9/99
p-Isopropyltoluene	<0.45	ug/l	0.45	1.4	ns	2.5		8260	cps	12/9/99
sec-Butylbenzene	<0.75	ug/l	0.75	2.4	ns	2.5		8260	cps	12/9/99
Styrene	<0.53	ug/l	0.53	1.7	10	2.5		8260	cps	12/9/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
tert-Butylbenzene	<0.5	ug/l	0.5	1.6	ns	2.5		8260	cps	12/9/99
Tetrachloroethene	<0.73	ug/l	0.73	2.3	0.5	2.5		8260	cps	12/9/99
Toluene	<0.83	ug/l	0.83	2.6	68.6	2.5		8260	cps	12/9/99
trans-1,2-Dichloroethene	4.3	ug/l	0.4	1.3	20	2.5		8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.5	ug/l	0.5	1.6	0.02	2.5		8260	cps	12/9/99
Trichloroethene	<0.4	ug/l	0.4	1.3	0.5	2.5		8260	cps	12/9/99
Trichlorofluoromethane	<0.85	ug/l	0.85	2.7	ns	2.5		8260	cps	12/9/99
Vinyl chloride	60	ug/l	0.53	1.7	0.02	2.5		8260	cps	12/9/99

Sample Number: 17588 QC Prep Batch Number: 992867 Sample analyzed within 2 Day(s) from collection.

Client ID: 991207MW12D Sample Description: Collection: 12/7/99 Time: 12:00

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
1,1,1-Trichloroethane	161	ug/l	0.23	0.73	40	1		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/9/99
1,1,2-Trichloroethane	0.42	ug/l	0.29	0.92	0.5	1	J	8260	cps	12/9/99
1,1-Dichloroethane	100	ug/l	0.15	0.48	85	1		8260	cps	12/9/99
1,1-Dichloroethene	46	ug/l	0.36	1.1	0.7	1		8260	cps	12/9/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/9/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/9/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/9/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/9/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/9/99
1,2-Dichloroethane	1.6	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/9/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/9/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/9/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/9/99
1,2-Dibromo-3-chloropropane	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/9/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/9/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/9/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/9/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 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	12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/9/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/9/99
Chloroform	0.57	ug/l	0.27	0.86	0.6	1	J	8260	cps	12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/9/99
cis-1,2-Dichloroethene	25	ug/l	0.2	0.64	7	1		8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/9/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/9/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/9/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	7.1	ug/l	0.16	0.51	20	1		8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	19	ug/l	0.16	0.51	0.5	1		8260	cps	12/9/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	0.76	ug/l	0.21	0.67	0.02	1		8260	cps	12/9/99

Sample Number: 17889 QC Prep Batch Number: 992867 Sample analyzed within 2 Day(s) from collection
 Client ID: 991207MW12B Sample Description: Collection: 12/7/99 Time: 13:10

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
1,1,1-Trichloroethane	0.91	ug/l	0.23	0.73	40	1		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/9/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
1,1-Dichloroethane	0.59	ug/l	0.15	0.48	85	1		8260	cps	12/9/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 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	12/9/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/9/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/9/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/9/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/9/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/9/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/9/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/9/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/9/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/9/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/9/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/9/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/9/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/9/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/9/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/9/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/9/99
cis-1,2-Dichloroethene	0.48	ug/l	0.2	0.64	7	1	J	8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/9/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99



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: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 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	12/9/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	0.35	ug/l	0.18	0.57	ns	1	J	8260	cps	12/9/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	12/9/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	0.22	ug/l	0.16	0.51	0.5	1	J	8260	cps	12/9/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/9/99

Sample Number: 17890 QC Prep Batch Number: 992867 Sample analyzed within: 2 Day(s) from collection

Client ID: 991207MW02D Sample Description: Collection: 12/7/99 Time: 13:30

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/9/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
1,1-Dichloroethane	0.58	ug/l	0.15	0.48	85	1		8260	cps	12/9/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/9/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/9/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/9/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	12/9/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/9/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	12/9/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/9/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	12/9/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/9/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	12/9/99
1,2-Dibromo-3-chloropropane	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/9/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/9/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	12/9/99



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

WDNR# 241340550

BATCH NUMBER: 991015
DATE REPORTED: 10-Dec-99
DATE RECEIVED: 08-Dec-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: MW Sampling #2
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	cps	12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/9/99
Acetone	79	ug/l	1.6	4.9	200	1		8260	cps	12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/9/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/9/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/9/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/9/99
cis-1,2-Dichloroethene	2.2	ug/l	0.2	0.64	7	1		8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/9/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99
Methyl-t-butyl ether	0.69	ug/l	0.21	0.67	12	1		8260	cps	12/9/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/9/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	0.77	ug/l	0.16	0.51	0.5	1		8260	cps	12/9/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	0.28	ug/l	0.21	0.67	0.02	1	J	8260	cps	12/9/99



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ORGANIC REPORT

WDNR# 241340550

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

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 17891 QC Prep Batch Number: 992867 Sample analyzed within 2 Day(s) from collection. Client ID: 991207MW05D Sample Description: Collection: 12/7/99 Time: 13:00										
1,1,1,2-Tetrachloroethane	< 2	ug/l	2	6.4	ns	10		8260	cps	12/9/99
1,1,1-Trichloroethane	< 2.3	ug/l	2.3	7.3	40	10		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	< 2.9	ug/l	2.9	9.2	0.02	10		8260	cps	12/9/99
1,1,2-Trichloroethane	< 2.9	ug/l	2.9	9.2	0.5	10		8260	cps	12/9/99
1,1-Dichloroethane	45	ug/l	1.5	4.8	85	10		8260	cps	12/9/99
1,1-Dichloroethene	5.7	ug/l	3.6	11	0.7	10	J	8260	cps	12/9/99
1,1-Dichloropropene	< 4.9	ug/l	4.9	16	ns	10		8260	cps	12/9/99
1,2,3-Trichlorobenzene	< 2.2	ug/l	2.2	7	ns	10		8260	cps	12/9/99
1,2,3-Trichloropropane	< 6	ug/l	6	19	ns	10		8260	cps	12/9/99
1,2,4-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	14	10		8260	cps	12/9/99
1,2,4-Trimethylbenzene	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/9/99
1,2-Dibromoethane	< 2.4	ug/l	2.4	7.6	0.005	10		8260	cps	12/9/99
1,2-Dichlorobenzene	< 2	ug/l	2	6.4	60	10		8260	cps	12/9/99
1,2-Dichloroethane	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	12/9/99
1,2-Dichloropropane	< 2.3	ug/l	2.3	7.3	0.5	10		8260	cps	12/9/99
1,3,5-Trimethylbenzene	< 2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/9/99
1,3-Dichlorobenzene	< 1.9	ug/l	1.9	6	125	10		8260	cps	12/9/99
1,3-Dichloropropane	< 2.1	ug/l	2.1	6.7	ns	10		8260	cps	12/9/99
1,4-Dichlorobenzene	< 1.5	ug/l	1.5	4.8	15	10		8260	cps	12/9/99
1,2-Dibromo-3-chloropropan	< 5.9	ug/l	5.9	19	0.02	10		8260	cps	12/9/99
2,2-Dichloropropane	< 4	ug/l	4	13	ns	10		8260	cps	12/9/99
2-Butanone (MEK)	< 14	ug/l	14	44	90	10		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	< 2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/9/99
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	ns	10		8260	cps	12/9/99
4-Chlorotoluene	< 2.5	ug/l	2.5	8	ns	10		8260	cps	12/9/99
4-Methyl-2-Pentanone	< 8.4	ug/l	8.4	27	50	10		8260	cps	12/9/99
Acetone	< 16	ug/l	16	49	200	10		8260	cps	12/9/99
Benzene	< 1.9	ug/l	1.9	6	0.5	10		8260	cps	12/9/99
Bromobenzene	< 1.9	ug/l	1.9	6	ns	10		8260	cps	12/9/99
Bromochloromethane	< 3.4	ug/l	3.4	11	ns	10		8260	cps	12/9/99
Bromodichloromethane	< 2.6	ug/l	2.6	8.3	0.06	10		8260	cps	12/9/99
Bromoform	< 4.7	ug/l	4.7	15	0.44	10		8260	cps	12/9/99
Bromomethane	< 2.1	ug/l	2.1	6.7	1	10		8260	cps	12/9/99
Carbon tetrachloride	< 2.2	ug/l	2.2	7	0.5	10		8260	cps	12/9/99
Chlorobenzene	< 2	ug/l	2	6.4	20	10		8260	cps	12/9/99
Chloroethane	32	ug/l	12	37	80	10	J	8260	cps	12/9/99
Chloroform	< 2.7	ug/l	2.7	8.6	0.6	10		8260	cps	12/9/99
Chloromethane	< 7.7	ug/l	7.7	24	0.3	10		8260	cps	12/9/99
cis-1,2-Dichloroethene	78	ug/l	2	6.4	7	10		8260	cps	12/9/99



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ORGANIC REPORT

WDNR# 241340550

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

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
cis-1,3-Dichloropropene	<2.4	ug/l	2.4	7.6	0.02	10		8260	cps	12/9/99
Dibromochloromethane	<2.1	ug/l	2.1	6.7	6	10		8260	cps	12/9/99
Dibromomethane	<3.5	ug/l	3.5	11	ns	10		8260	cps	12/9/99
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	200	10		8260	cps	12/9/99
Ethylbenzene	<1.6	ug/l	1.6	5.1	140	10		8260	cps	12/9/99
Hexachlorobutadiene	<2.2	ug/l	2.2	7	ns	10		8260	cps	12/9/99
Isopropyl Ether	<3.2	ug/l	3.2	10	ns	10		8260	cps	12/9/99
Isopropylbenzene	<1.6	ug/l	1.6	5.1	ns	10		8260	cps	12/9/99
m&p-xylene	<3.6	ug/l	3.6	11	124	10		8260	cps	12/9/99
Methyl-t-butyl ether	<2.1	ug/l	2.1	6.7	12	10		8260	cps	12/9/99
Methylene chloride	<7.6	ug/l	7.6	24	0.5	10		8260	cps	12/9/99
n-Butylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/9/99
n-Propylbenzene	<2.5	ug/l	2.5	8	ns	10		8260	cps	12/9/99
Naphthalene	<4.6	ug/l	4.6	15	8	10		8260	cps	12/9/99
o-xylene	<1.8	ug/l	1.8	5.7	124	10		8260	cps	12/9/99
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	ns	10		8260	cps	12/9/99
sec-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	12/9/99
Styrene	<2.1	ug/l	2.1	6.7	10	10		8260	cps	12/9/99
tert-Butylbenzene	<2	ug/l	2	6.4	ns	10		8260	cps	12/9/99
Tetrachloroethene	<2.9	ug/l	2.9	9.2	0.5	10		8260	cps	12/9/99
Toluene	<3.3	ug/l	3.3	10	68.6	10		8260	cps	12/9/99
trans-1,2-Dichloroethene	3.9	ug/l	1.6	5.1	20	10	J	8260	cps	12/9/99
trans-1,3-Dichloropropene	<2	ug/l	2	6.4	0.02	10		8260	cps	12/9/99
Trichloroethene	609	ug/l	1.6	5.1	0.5	10		8260	cps	12/9/99
Trichlorofluoromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	12/9/99
Vinyl chloride	<2.1	ug/l	2.1	6.7	0.02	10		8260	cps	12/9/99

Sample Number: 17892 QC Prep Batch Number: 992867 Sample analyzed within 2 Day(s) from collection

Client ID: Trip Blank Sample Description: Collection: 12/7/99 Time:

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/9/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/9/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/9/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/9/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/9/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/9/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/9/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/9/99



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James Chang
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 2572 Oak St.
 Ashippun, WI 53003

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/9/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/9/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/9/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/9/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/9/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/9/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/9/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/9/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/9/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/9/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/9/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/9/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/9/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/9/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99



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: 991015
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #2
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/9/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/9/99

Approved By 

James Chang, Ph.D., Lab Director

Date: 12/17/99

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 991015
 DATE REPORTED: 20-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: MW Sampling #
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 17886										
Client ID: 991207MW15DP										
								Collection: 12/7/99	Time: 09:00	
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.1	mg/l	RJ	0.002	0.006	200.7	rf	12/9/99	992854	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/10/99	992883	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/9/99	992854	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Iron - ICAP	0.19	mg/l	J RJ	0.078	0.25	200.7	rf	12/9/99	992854	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.21	mg/l	RJ	0.004	0.01	200.7	rf	12/9/99	992854	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/9/99	992854	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	1110	umhos/cm	#			120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	7	s.u.	#			150.1	sh	12/7/99	992859	

Nova Sample Number: 17887
 Client ID: 991207MW16SP

Collection: 12/7/99 Time: 09:40
 Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.05	mg/l	RJ	0.002	0.006	200.7	rf	12/9/99	992854	
Cadmium - Furnace AA	2.8	ug/l	RJ	0.7	2.2	213.2	rf	12/10/99	992883	
Cadmium-Total Recoverable	2.7	ug/l	TR	0.7	2.2	7131	dmd	12/13/99	992890	
Chromium, Total - ICAP	0.04	mg/l	RJ	0.012	0.04	200.7	rf	12/9/99	992854	
Copper- ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Iron - ICAP	34	mg/l	RJ	0.078	0.25	200.7	rf	12/9/99	992854	
Lead - Furnace AA	3.1	ug/l	J RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.52	mg/l	RJ	0.004	0.01	200.7	rf	12/9/99	992854	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 991015
 DATE REPORTED: 20-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nickel - ICAP	0.06	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Selenium - Furnace AA	12	ug/l	J RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/9/99	992854	
Thallium - Furnace AA	15	ug/l	J RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	0.2	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	1660	umhos/cm	#			120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	7.6	s.u.	#			150.1	sh	12/7/99	992859	

Nova Sample Number: 17888

Client ID: 991207MW12DP

Collection: 12/7/99

Time: 12:00

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.07	mg/l	RJ	0.002	0.006	200.7	rf	12/9/99	992854	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/10/99	992883	
Chromium, Total - ICAP	0.01	mg/l	J RJ	0.012	0.04	200.7	rf	12/9/99	992854	
Copper - ICAP	2.7	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Iron - ICAP	4.1	mg/l	RJ	0.078	0.25	200.7	rf	12/9/99	992854	
Lead - Furnace AA	2.2	ug/l	J RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.07	mg/l	RJ	0.004	0.01	200.7	rf	12/9/99	992854	
Mercury CV	0.0003	mg/l	J RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Selenium - Furnace AA	5.5	ug/l	J RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/9/99	992854	
Thallium - Furnace AA	17	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	837	umhos/cm	#			120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	7.6	s.u.	#			150.1	sh	12/7/99	992859	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 991015
 DATE REPORTED: 20-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling #
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 17889										
Client ID: 991207MW12BP										
								Collection: 12/7/99	Time: 13:10	
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.07	mg/l	RJ	0.002	0.006	200.7	rf	12/9/99	992854	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/10/99	992883	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/9/99	992854	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Iron - ICAP	0.95	mg/l	RJ	0.078	0.25	200.7	rf	12/9/99	992854	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.03	mg/l	RJ	0.004	0.01	200.7	rf	12/9/99	992854	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	13	mg/l	J RJ	10	32	200.7	rf	12/9/99	992854	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/9/99	992854	
Thallium - Furnace AA	7.3	ug/l	J RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	778	umhos/cm	#			120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	7.5	s.u.	#			150.1	sh	12/7/99	992859	

Nova Sample Number: 17890										
Client ID: 991207MW02DP										
								Collection: 12/7/99	Time: 13:30	
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.08	mg/l	RJ	0.002	0.006	200.7	rf	12/9/99	992854	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/10/99	992883	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/9/99	992854	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Iron - ICAP	3.4	mg/l	RJ	0.078	0.25	200.7	rf	12/9/99	992854	
Lead - Furnace AA	1.8	ug/l	J RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.08	mg/l	RJ	0.004	0.01	200.7	rf	12/9/99	992854	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 991015
 DATE REPORTED: 20-Dec-99
 DATE RECEIVED: 08-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: MW Sampling #
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Selenium - Furnace AA	20	ug/l	J RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/9/99	992854	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	997	umhos/cm	#			120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	7.1	s.u.	#			150.1	sh	12/7/99	992859	

Nova Sample Number: 17891
 Client ID: 991207MW05DP

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

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.07	mg/l	RJ	0.002	0.006	200.7	rf	12/9/99	992854	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/10/99	992883	
Chromium, Total - ICAP	0.01	mg/l	J RJ	0.012	0.04	200.7	rf	12/9/99	992854	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Iron - ICAP	2.7	mg/l	RJ	0.078	0.25	200.7	rf	12/9/99	992854	
Lead - Furnace AA	1.7	ug/l	J RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.09	mg/l	RJ	0.004	0.01	200.7	rf	12/9/99	992854	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Selenium - Furnace AA	16	ug/l	J RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/9/99	992854	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	rf	12/9/99	992854	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	594	umhos/cm	#			120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	7.4	s.u.	#			150.1	sh	12/7/99	992859	



INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER 991015
DATE REPORTED: 20-Dec-99
DATE RECEIVED: 08-Dec-99
SAMPLE TEMP (C) Rec On Ice
PROJECT ID: MW Sampling #
PROJECT NAME: OGTP

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

Date:

12/20/99

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

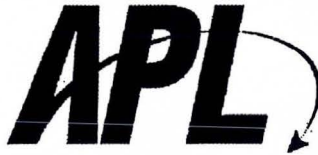
"#" = no LOD or LOQ required.

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.



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 991010
 DATE REPORTED: 20-Dec-99
 DATE RECEIVED: 07-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: MW Sampling
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
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Nova Sample Number: 17876
 Client ID: 991206MW13SP

Collection: 12/6/99 Time: 14:50
 Sample Description:

Arsenic - Furnace AA	19	ug/l	J RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.09	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/10/99	992883	
Chromium, Total - ICAP	0.85	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper- ICAP	0.07	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	37	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	16	ug/l	RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.4	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	0.13	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Selenium - Furnace AA	31	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.1	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	500	umhos/cm	#			120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	7	s.u.	#			150.1	sh	12/7/99	992806	

Nova Sample Number: 17877
 Client ID: 991206MW14DP

Collection: 12/6/99 Time: 14:15
 Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.04	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/10/99	992883	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	0.36	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	1.8	ug/l	J RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.07	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	



INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER 991010
 DATE REPORTED: 20-Dec-99
 DATE RECEIVED: 06-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: MW Sampling
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900	
Conductivity	625	umhos/cm #				120.1	sh	12/10/99	992874	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992850	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992849	
pH (water)	6.5	s.u.	#			150.1	sh	12/7/99	992806	

Approved By: 

James Chang, Ph.D., Lab Director

Date: 12/20/99

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: 991010
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 07-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 17876		QC Prep Batch Number: 992867		Sample analyzed within 3 Day(s) from collection						
Client ID: 991206MW13SP		Sample Description:		Collection: 12/6/99 Time: 14:50						
1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1	8260	cps		12/9/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1	8260	cps		12/9/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1	8260	cps		12/9/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1	8260	cps		12/9/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1	8260	cps		12/9/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1	8260	cps		12/9/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1	8260	cps		12/9/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1	8260	cps		12/9/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1	8260	cps		12/9/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1	8260	cps		12/9/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1	8260	cps		12/9/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1	8260	cps		12/9/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1	8260	cps		12/9/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1	8260	cps		12/9/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1	8260	cps		12/9/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1	8260	cps		12/9/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1	8260	cps		12/9/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1	8260	cps		12/9/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1	8260	cps		12/9/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1	8260	cps		12/9/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1	8260	cps		12/9/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1	8260	cps		12/9/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1	8260	cps		12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1	8260	cps		12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1	8260	cps		12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1	8260	cps		12/9/99
Acetone	<1.6	ug/l	1.6	4.9	200	1	8260	cps		12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1	8260	cps		12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1	8260	cps		12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1	8260	cps		12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1	8260	cps		12/9/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1	8260	cps		12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1	8260	cps		12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1	8260	cps		12/9/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1	8260	cps		12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1	8260	cps		12/9/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1	8260	cps		12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1	8260	cps		12/9/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1	8260	cps		12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1	8260	cps		12/9/99



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: 991010
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 07-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling
 PROJECT NAME: OGTP

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	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/9/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/9/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/9/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/9/99

Sample Number: 17877 QC Prep Batch Number: 992867 Sample analyzed within 3 Day(s) from collection.

Client ID: 991206MW14D Sample Description: Collection: 12/6/99 Time: 14:15

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/9/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/9/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/9/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/9/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/9/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/9/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/9/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/9/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991010
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 06-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW 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	12/9/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/9/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/9/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/9/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/9/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/9/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/9/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/9/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/9/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/9/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/9/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/9/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/9/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/9/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991010
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 06-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW 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	12/9/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/9/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/9/99

Sample Number: 17878 QC Prep Batch Number: 992867 Sample analyzed within 3 Day(s) from collection.

Client ID: Trip Blank Sample Description: Collection: 12/6/99 Time:

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/9/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/9/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/9/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/9/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/9/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/9/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/9/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/9/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/9/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/9/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/9/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/9/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/9/99
12Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/9/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/9/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/9/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/9/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/9/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/9/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/9/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/9/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/9/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/9/99



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

WDNR# 241340550

BATCH NUMBER: 991010
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 07-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW 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	12/9/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/9/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/9/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/9/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/9/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/9/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/9/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/9/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/9/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/9/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/9/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/9/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/9/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/9/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/9/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/9/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/9/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/9/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/9/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/9/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/9/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/9/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/9/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/9/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/9/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/9/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/9/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/9/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/9/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/9/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/9/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/9/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/9/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/9/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991010
 DATE REPORTED: 10-Dec-99
 DATE RECEIVED: 07-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: MW Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
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Approved By:  Date: 12/17/99
 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 990826
 DATE REPORTED: 12-Nov-99
 DATE RECEIVED: 19-Oct-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: 17050										
Client ID: 991019SC13P										
							Collection:	10/19/99	Time: 11:50	
							Sample Description:			
Cadmium - ICAP	<0.006	mg/l	TC	0.006	0.02	200.7	rf	10/21/99	992357	%rec=89
Chromium, Total - ICAP	<0.012	mg/l	TC	0.012	0.04	200.7	rf	10/21/99	992357	%rec=94
Lead - ICAP	<0.051	mg/l	TC	0.051	0.16	200.7	rf	10/21/99	992357	%rec=78
Nickel - ICAP	<0.01	mg/l	TC	0.01	0.03	200.7	rf	10/21/99	992357	%rec=87
Silver - ICAP	<0.009	mg/l	TC	0.009	0.03	200.7	rf	10/21/99	992357	%rec=87
Cyanide, Reactive	0.22	mg/kg		0.031	0.10	335.2	srh	11/9/99	992525	
Free Liquids (paint filter test)	pass		#			9095	rf	10/20/99	992323	
pH (Solids)	11	s.u.	#			9045	rf	10/20/99	992322	
Solids, Total Percent	36	%	#			SM 2540	pm	11/20/99	992325	
Specific Gravity	1.3	s.u.	#			SM 2710	rf	10/21/99	992350	
TCLP extraction	done		#			1311	rf	10/20/99	992324	

Approved By: _____

James Chang, Ph.D., Lab Director

Date: _____

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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Dr. James Chang
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ORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER: 990862
 DATE REPORTED: 05-Nov-99
 DATE RECEIVED: 28-Oct-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID:
 PROJECT NAME:

Dry Weight and Dilution Factor Corrected

Compound	LUST Result	Units	LUST LOD	LUST LOQ	NOVA LOD	Dilution Factor	RQ	Method	Analyst	Date of Analysis
Sample Number 17164	Percent Solid: 35.6%		QC Batch Number: 922423	Sample analyzed within 1 Day(s) from collection						
Client ID 991028SC13P	Sample Description:		Collection: 10/28/99	Time: 11:00						
1,1,1-Trichloroethane	<125*	ug/kg	125	300	29	5.0		8260	cps	10/29/99
1,1,2,2-Tetrachloroethane	<125*	ug/kg	125	300	37	5.0		8260	cps	10/29/99
1,1,2-Trichloroethane	<125*	ug/kg	125	300	37	5.0		8260	cps	10/29/99
1,1-Dichloroethane	<125*	ug/kg	125	300	19	5.0		8260	cps	10/29/99
1,1-Dichloroethene	<125*	ug/kg	125	300	44	5.0		8260	cps	10/29/99
1,2,3-Trichlorobenzene	<125*	ug/kg	125	300	27	5.0		8260	cps	10/29/99
1,2,4-Trichlorobenzene	<125*	ug/kg	125	300	20	5.0		8260	cps	10/29/99
1,2,4-Trimethylbenzene	<125*	ug/kg	125	300	37	5.0		8260	cps	10/29/99
1,2-Dibromo-3-chloropropan	<125*	ug/kg	125	300	74	5.0		8260	cps	10/29/99
1,2-Dichlorobenzene	<125*	ug/kg	125	300	25	5.0		8260	cps	10/29/99
1,2-Dichloroethane	<125*	ug/kg	125	300	24	5.0		8260	cps	10/29/99
1,2-Dichloropropane	<125*	ug/kg	125	300	29	5.0		8260	cps	10/29/99
1,3,5-Trimethylbenzene	<125*	ug/kg	125	300	28	5.0		8260	cps	10/29/99
1,3-Dichlorobenzene	<125*	ug/kg	125	300	23	5.0		8260	cps	10/29/99
1,3-Dichloropropane	<125*	ug/kg	125	300	27	5.0		8260	cps	10/29/99
1,4-Dichlorobenzene	<125*	ug/kg	125	300	18	5.0		8260	cps	10/29/99
2,2-Dichloropropane	<125*	ug/kg	125	300	50	5.0		8260	cps	10/29/99
2-Chlorotoluene	<125*	ug/kg	125	300	19	5.0		8260	cps	10/29/99
4-Chlorotoluene	<125*	ug/kg	125	300	31	5.0		8260	cps	10/29/99
Benzene	<125*	ug/kg	125	300	24	5.0		8260	cps	10/29/99
Bromobenzene	<125*	ug/kg	125	300	24	5.0		8260	cps	10/29/99
Bromodichloromethane	<125*	ug/kg	125	300	32	5.0		8260	cps	10/29/99
Carbon tetrachloride	<125*	ug/kg	125	300	27	5.0		8260	cps	10/29/99
Chlorobenzene	<125*	ug/kg	125	300	25	5.0		8260	cps	10/29/99
Chloroethane	<145	ug/kg	125	300	145	5.0		8260	cps	10/29/99
Chloroform	<125*	ug/kg	125	300	34	5.0		8260	cps	10/29/99
Chloromethane	<125*	ug/kg	125	300	96	5.0		8260	cps	10/29/99
cis-1,2-Dichloroethene	<125*	ug/kg	125	300	25	5.0		8260	cps	10/29/99
Dibromochloromethane	<125*	ug/kg	125	300	26	5.0		8260	cps	10/29/99
Dichlorodifluoromethane	<125*	ug/kg	125	300	45	5.0		8260	cps	10/29/99
Ethylbenzene	<125*	ug/kg	125	300	19	5.0		8260	cps	10/29/99
Hexachlorobutadiene	<125*	ug/kg	125	300	28	5.0		8260	cps	10/29/99
Isopropyl Ether	<125*	ug/kg	125	300	40	5.0		8260	cps	10/29/99
Isopropylbenzene	<125*	ug/kg	125	300	21	5.0		8260	cps	10/29/99
m&p-xylene	<125*	ug/kg	125	300	45	5.0		8260	cps	10/29/99
Methylene chloride	<125*	ug/kg	125	300	95	5.0		8260	cps	10/29/99
MTBE	<125*	ug/kg	125	300	26	5.0		8260	cps	10/29/99
n-Butylbenzene	<125*	ug/kg	125	300	28	5.0		8260	cps	10/29/99
n-Propylbenzene	<125*	ug/kg	125	300	31	5.0		8260	cps	10/29/99

* According to LUST Release News, October 1994 Volume 4, Number 5, ; Laboratories are not required to report sample results that are below 25 ug/kg, but are required to report their actual MDL on the report.



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Dr. James Chang
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ORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER: 990862
 DATE REPORTED: 05-Nov-99
 DATE RECEIVED: 28-Oct-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID:
 PROJECT NAME:

Dry Weight and Dilution Factor Corrected

Compound	LUST		LUST LOD	LUST LOQ	NOVA LOD	Dilution Factor	RQ	Method	Analyst	Date of Analysis
	Result	Units								
Naphthalene	<125*	ug/kg	125	300	57	5.0		8260	cps	10/29/99
o-xylene	<125*	ug/kg	125	300	22	5.0		8260	cps	10/29/99
p-Isopropyltoluene	<125*	ug/kg	125	300	23	5.0		8260	cps	10/29/99
sec-Butylbenzene	<125*	ug/kg	125	300	37	5.0		8260	cps	10/29/99
tert-Butylbenzene	<125*	ug/kg	125	300	25	5.0		8260	cps	10/29/99
Tetrachloroethene	<125*	ug/kg	125	300	36	5.0		8260	cps	10/29/99
Toluene	<125*	ug/kg	125	300	41	5.0		8260	cps	10/29/99
trans-1,2-Dichloroethene	<125*	ug/kg	125	300	20	5.0		8260	cps	10/29/99
Trichloroethene	518	ug/kg	125	300	20	5.0		8260	cps	10/29/99
Trichlorofluoromethane	<125*	ug/kg	125	300	43	5.0		8260	cps	10/29/99
Vinyl chloride	<125*	ug/kg	125	300	27	5.0		8260	cps	10/29/99

Approved By: 

James Chang, Ph.D., Lab Director

Date: 11/10/99

* Special LUST Format for Methanol - Preserved Soil PVOCs or VOCs, (Release News, July and October 1994)

NOVA Lab LOD = where the LOD has been determined in accordance with 40 CFR, Part 136, Appendix B.

LUST LOD = LUST program PVOC/VOC LOD of 25 ug/kg (wet weight basis)

LUST LOQ = LUST program PVOC/VOC LOQ of 60 ug/kg (wet weight basis)

RQ : Run Qualifier; "J" = Results between LOD and LOQ "L" = Samples less than 20 g, "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.

* According to LUST Release News, October 1994 Volume 4, Number 5, ; Laboratories are not required to report sample results that are below 25 ug/kg, but are required to report their actual MDL on the report.



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 990985
 DATE REPORTED: 13-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 17758										
Client ID: 991201EW01										
								Collection: 12/1/99	Time: 13:00	
Sample Description:										
Arsenic - Furnace AA	17	ug/l	J RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.16	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	1.1	ug/l	J RJ	0.7	2.2	213.2	rf	12/2/99	992764	
Cadmium-Total Recoverable	0.76	ug/l	J TR	0.7	2.2	7131	dmd	12/13/99	992890	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper- ICAP	0.09	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	4.2	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/2/99	992763	
Manganese - ICAP	0.24	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.06	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	2805353	12/2/99	992839	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992848	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992845	
pH (water)	7.2	s.u.	#			150.1	sh	12/3/99	992774	

Nova Sample Number: 17759
 Client ID: 991201EW02

Collection: 12/1/99 Time: 13:10
 Sample Description:

Arsenic - Furnace AA	24	ug/l	J RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.08	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	1	ug/l	J RJ	0.7	2.2	213.2	rf	12/2/99	992764	
Cadmium-Total Recoverable	0.86	ug/l	J TR	0.7	2.2	7131	dmd	12/13/99	992890	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper- ICAP	0.2	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	0.94	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	4.4	ug/l	J RJ	1.4	4.5	239.2	rf	12/2/99	992763	
Manganese - ICAP	0.08	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER: 990985
 DATE REPORTED: 13-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nickel - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Selenium - Furnace AA	27	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.32	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	2805353	12/2/99	992839	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992848	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992845	
pH (water)	7.2	s.u.	#			150.1	sh	12/3/99	992774	

Nova Sample Number: 17760
 Client ID: 991201EW03

Collection: 12/1/99 Time: 13:20
 Sample Description:

Arsenic - Furnace AA	14	ug/l	J RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.14	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/2/99	992764	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper - ICAP	0.1	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	2.4	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	89	ug/l	RJ	1.4	4.5	239.2	rf	12/2/99	992763	
Manganese - ICAP	0.08	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	0.05	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Selenium - Furnace AA	64	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	1.1	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	2805353	12/2/99	992839	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992848	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992845	
pH (water)	7.2	s.u.	#			150.1	sh	12/3/99	992774	

Nova Sample Number: 17761
 Client ID: 991201EW04

Collection: 12/1/99 Time:
 Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/7/99	992819	
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INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 990985
 DATE REPORTED: 13-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Barium - ICAP	0.14	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/2/99	992764	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper- ICAP	0.03	mg/l	J RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	2.9	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	25	ug/l	RJ	1.4	4.5	239.2	rf	12/2/99	992763	
Manganese - ICAP	0.18	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	0.05	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.12	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	2805353	12/2/99	992839	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992848	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992845	
pH (water)	7.1	s.u.	#			150.1	sh	12/3/99	992774	

Nova Sample Number: 17762

Client ID: 991201EW05

Collection: 12/1/99

Time: 13:50

Sample Description:

Arsenic - Furnace AA	14	ug/l	J RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.13	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/2/99	992764	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper- ICAP	0.03	mg/l	J RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	3.1	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	12	ug/l	RJ	1.4	4.5	239.2	rf	12/2/99	992763	
Manganese - ICAP	0.08	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	12	ug/l	J RJ	10	32	200.7	rf	12/8/99	992817	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.07	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	2805353	12/2/99	992839	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 990985
 DATE REPORTED: 13-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992848	
Cyanide, Total	0.009	mg/l	J	0.006	0.02	335.2	srh	12/9/99	992845	
pH (water)	7.3	s.u.	#			150.1	sh	12/3/99	992774	

Nova Sample Number: 17763

Client ID: 991201WW-1

Collection: 12/1/99

Time:

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.37	mg/l	RJ	0.002	0.006	200.7	rf	12/8/99	992817	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/2/99	992764	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/8/99	992817	
Copper- ICAP	0.28	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Iron - ICAP	2.4	mg/l	RJ	0.078	0.25	200.7	rf	12/8/99	992817	
Lead - Furnace AA	1.8	ug/l	J RJ	1.4	4.5	239.2	rf	12/10/99	992881	
Manganese - ICAP	0.02	mg/l	RJ	0.004	0.01	200.7	rf	12/8/99	992817	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/10/99	992872	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Selenium - Furnace AA	70	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/8/99	992817	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.17	mg/l	RJ	0.01	0.03	200.7	rf	12/8/99	992817	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	2805353	12/2/99	992839	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992848	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/9/99	992845	
pH (water)	7.5	s.u.	#			150.1	sh	12/3/99	992774	



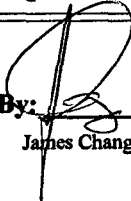
INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 990985
 DATE REPORTED: 13-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
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Approved By:  Date: 12/13/99
 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.



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 17758		QC Prep Batch Number: 992762		Sample analyzed within 1 Day(s) from collection.						
Client ID: 991201EW01		Sample Description:		Collection: 12/1/99 Time: 13:00						
1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/2/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/2/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/2/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/2/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/2/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/2/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/2/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/2/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/2/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/2/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/2/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/2/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/2/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/2/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/2/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/2/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/2/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/2/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/2/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/2/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/2/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/2/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/2/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/2/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/2/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/2/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/2/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/2/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/2/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/2/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/2/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/2/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/2/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/2/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/2/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/2/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/2/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/2/99
cis-1,2-Dichloroethene	0.69	ug/l	0.2	0.64	7	1		8260	cps	12/2/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/2/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

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	12/2/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/2/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	12/2/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	12/2/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/2/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	12/2/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/2/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	12/2/99
Methyl-t-butyl ether	0.37	ug/l	0.21	0.67	12	1	J	8260	cps	12/2/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/2/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/2/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/2/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	12/2/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	12/2/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/2/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/2/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	12/2/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/2/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/2/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	12/2/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	12/2/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/2/99
Trichloroethene	5.6	ug/l	0.16	0.51	0.5	1		8260	cps	12/2/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/2/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/2/99

Sample Number: 17759 QC Prep Batch Number: 992762 Sample analyzed within 1 Day(s) from collection
 Client ID: 991201EW02 Sample Description: Collection: 12/1/99 Time: 13:10

1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/2/99
1,1,1-Trichloroethane	0.45	ug/l	0.23	0.73	40	1	J	8260	cps	12/2/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/2/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/2/99
1,1-Dichloroethane	2.5	ug/l	0.15	0.48	85	1		8260	cps	12/2/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/2/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/2/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/2/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/2/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1		8260	cps	12/2/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/2/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/2/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1		8260	cps	12/2/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/2/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
DATE REPORTED: 03-Dec-99
DATE RECEIVED: 02-Dec-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: EW-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	12/2/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/2/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1		8260	cps	12/2/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/2/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1		8260	cps	12/2/99
12Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/2/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/2/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1		8260	cps	12/2/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/2/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/2/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/2/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1		8260	cps	12/2/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1		8260	cps	12/2/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/2/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/2/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/2/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/2/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/2/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1		8260	cps	12/2/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/2/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1		8260	cps	12/2/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1		8260	cps	12/2/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/2/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/2/99
cis-1,2-Dichloroethene	12	ug/l	0.2	0.64	7	1		8260	cps	12/2/99
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/2/99
Dibromochloromethane	< 0.21	ug/l	0.21	0.67	6	1		8260	cps	12/2/99
Dibromomethane	< 0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/2/99
Dichlorodifluoromethane	< 0.36	ug/l	0.36	1.1	200	1		8260	cps	12/2/99
Ethylbenzene	< 0.16	ug/l	0.16	0.51	140	1		8260	cps	12/2/99
Hexachlorobutadiene	< 0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/2/99
Isopropyl Ether	< 0.32	ug/l	0.32	1	ns	1		8260	cps	12/2/99
Isopropylbenzene	< 0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/2/99
m&p-xylene	< 0.36	ug/l	0.36	1.1	124	1		8260	cps	12/2/99
Methyl-t-butyl ether	< 0.21	ug/l	0.21	0.67	12	1		8260	cps	12/2/99
Methylene chloride	< 0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/2/99
n-Butylbenzene	< 0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/2/99
n-Propylbenzene	< 0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/2/99
Naphthalene	< 0.46	ug/l	0.46	1.5	8	1		8260	cps	12/2/99
o-xylene	< 0.18	ug/l	0.18	0.57	124	1		8260	cps	12/2/99
p-Isopropyltoluene	< 0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/2/99
sec-Butylbenzene	< 0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/2/99
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	12/2/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-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	12/2/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/2/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/2/99
trans-1,2-Dichloroethene	4.1	ug/l	0.16	0.51	20	1		8260	cps	12/2/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/2/99
Trichloroethene	16	ug/l	0.16	0.51	0.5	1		8260	cps	12/2/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/2/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/2/99

Sample Number: 17760 QC Prep Batch Number: 992762 Sample analyzed within 1 Day(s) from collection.
 Client ID: 991201EW03 Sample Description: Collection: 12/1/99 Time: 13:20

1,1,1,2-Tetrachloroethane	<0.4	ug/l	0.4	1.3	ns	2		8260	cps	12/2/99
1,1,1-Trichloroethane	10	ug/l	0.46	1.5	40	2		8260	cps	12/2/99
1,1,2,2-Tetrachloroethane	<0.58	ug/l	0.58	1.8	0.02	2		8260	cps	12/2/99
1,1,2-Trichloroethane	<0.58	ug/l	0.58	1.8	0.5	2		8260	cps	12/2/99
1,1-Dichloroethane	17	ug/l	0.3	0.95	85	2		8260	cps	12/2/99
1,1-Dichloroethene	5.2	ug/l	0.72	2.3	0.7	2		8260	cps	12/2/99
1,1-Dichloropropene	<0.98	ug/l	0.98	3.1	ns	2		8260	cps	12/2/99
1,2,3-Trichlorobenzene	<0.44	ug/l	0.44	1.4	ns	2		8260	cps	12/2/99
1,2,3-Trichloropropane	<1.2	ug/l	1.2	3.8	ns	2		8260	cps	12/2/99
1,2,4-Trichlorobenzene	<0.32	ug/l	0.32	1	14	2		8260	cps	12/2/99
1,2,4-Trimethylbenzene	<0.58	ug/l	0.58	1.8	ns	2		8260	cps	12/2/99
1,2-Dibromoethane	<0.48	ug/l	0.48	1.5	0.005	2		8260	cps	12/2/99
1,2-Dichlorobenzene	<0.4	ug/l	0.4	1.3	60	2		8260	cps	12/2/99
1,2-Dichloroethane	<0.38	ug/l	0.38	1.2	0.5	2		8260	cps	12/2/99
1,2-Dichloropropane	<0.46	ug/l	0.46	1.5	0.5	2		8260	cps	12/2/99
1,3,5-Trimethylbenzene	<0.46	ug/l	0.46	1.5	ns	2		8260	cps	12/2/99
1,3-Dichlorobenzene	<0.38	ug/l	0.38	1.2	125	2		8260	cps	12/2/99
1,3-Dichloropropane	<0.42	ug/l	0.42	1.3	ns	2		8260	cps	12/2/99
1,4-Dichlorobenzene	<0.3	ug/l	0.3	0.95	15	2		8260	cps	12/2/99
1,2-Dibromo-3-chloropropan	<1.2	ug/l	1.2	3.8	0.02	2		8260	cps	12/2/99
2,2-Dichloropropane	<0.8	ug/l	0.8	2.5	ns	2		8260	cps	12/2/99
2-Butanone (MEK)	<2.8	ug/l	2.8	8.8	90	2		8260	cps	12/2/99
2-Chloroethyl Vinyl Ether	<0.58	ug/l	0.58	1.8	ns	2		8260	cps	12/2/99
2-Chlorotoluene	<0.3	ug/l	0.3	0.95	ns	2		8260	cps	12/2/99
4-Chlorotoluene	<0.5	ug/l	0.5	1.6	ns	2		8260	cps	12/2/99
4-Methyl-2-Pentanone	<1.7	ug/l	1.7	5.3	50	2		8260	cps	12/2/99
Acetone	<3.1	ug/l	3.1	9.9	200	2		8260	cps	12/2/99
Benzene	<0.38	ug/l	0.38	1.2	0.5	2		8260	cps	12/2/99
Bromobenzene	<0.38	ug/l	0.38	1.2	ns	2		8260	cps	12/2/99
Bromochloromethane	<0.68	ug/l	0.68	2.2	ns	2		8260	cps	12/2/99
Bromodichloromethane	<0.52	ug/l	0.52	1.7	0.06	2		8260	cps	12/2/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Bromoform	< 0.94	ug/l	0.94	3	0.44	2		8260	cps	12/2/99
Bromomethane	< 0.42	ug/l	0.42	1.3	1	2		8260	cps	12/2/99
Carbon tetrachloride	1.5	ug/l	0.44	1.4	0.5	2		8260	cps	12/2/99
Chlorobenzene	< 0.4	ug/l	0.4	1.3	20	2		8260	cps	12/2/99
Chloroethane	< 2.3	ug/l	2.3	7.4	80	2		8260	cps	12/2/99
Chloroform	< 0.54	ug/l	0.54	1.7	0.6	2		8260	cps	12/2/99
Chloromethane	< 1.5	ug/l	1.5	4.9	0.3	2		8260	cps	12/2/99
cis-1,2-Dichloroethene	32	ug/l	0.4	1.3	7	2		8260	cps	12/2/99
cis-1,3-Dichloropropene	< 0.48	ug/l	0.48	1.5	0.02	2		8260	cps	12/2/99
Dibromochloromethane	< 0.42	ug/l	0.42	1.3	6	2		8260	cps	12/2/99
Dibromomethane	< 0.7	ug/l	0.7	2.2	ns	2		8260	cps	12/2/99
Dichlorodifluoromethane	< 0.72	ug/l	0.72	2.3	200	2		8260	cps	12/2/99
Ethylbenzene	< 0.32	ug/l	0.32	1	140	2		8260	cps	12/2/99
Hexachlorobutadiene	< 0.44	ug/l	0.44	1.4	ns	2		8260	cps	12/2/99
Isopropyl Ether	< 0.64	ug/l	0.64	2	ns	2		8260	cps	12/2/99
Isopropylbenzene	< 0.32	ug/l	0.32	1	ns	2		8260	cps	12/2/99
m&p-xylene	< 0.72	ug/l	0.72	2.3	124	2		8260	cps	12/2/99
Methyl-t-butyl ether	< 0.42	ug/l	0.42	1.3	12	2		8260	cps	12/2/99
Methylene chloride	2.2	ug/l	1.5	4.8	0.5	2	J	8260	cps	12/2/99
n-Butylbenzene	< 0.46	ug/l	0.46	1.5	ns	2		8260	cps	12/2/99
n-Propylbenzene	< 0.5	ug/l	0.5	1.6	ns	2		8260	cps	12/2/99
Naphthalene	< 0.92	ug/l	0.92	2.9	8	2		8260	cps	12/2/99
o-xylene	< 0.36	ug/l	0.36	1.1	124	2		8260	cps	12/2/99
p-Isopropyltoluene	< 0.36	ug/l	0.36	1.1	ns	2		8260	cps	12/2/99
sec-Butylbenzene	< 0.6	ug/l	0.6	1.9	ns	2		8260	cps	12/2/99
Styrene	< 0.42	ug/l	0.42	1.3	10	2		8260	cps	12/2/99
tert-Butylbenzene	< 0.4	ug/l	0.4	1.3	ns	2		8260	cps	12/2/99
Tetrachloroethene	< 0.58	ug/l	0.58	1.8	0.5	2		8260	cps	12/2/99
Toluene	< 0.66	ug/l	0.66	2.1	68.6	2		8260	cps	12/2/99
trans-1,2-Dichloroethene	2.4	ug/l	0.32	1	20	2		8260	cps	12/2/99
trans-1,3-Dichloropropene	< 0.4	ug/l	0.4	1.3	0.02	2		8260	cps	12/2/99
Trichloroethene	139	ug/l	0.32	1	0.5	2		8260	cps	12/2/99
Trichlorofluoromethane	< 0.68	ug/l	0.68	2.2	ns	2		8260	cps	12/2/99
Vinyl chloride	0.56	ug/l	0.42	1.3	0.02	2	J	8260	cps	12/2/99

Sample Number: 17761 QC Prep Batch Number: 992762 Sample analyzed within: 1 Day(s) from collection.

Client ID: 991201EW04 Sample Description: Collection: 12/1/99 Time:

1,1,1,2-Tetrachloroethane	< 4	ug/l	4	13	ns	20		8260	cps	12/2/99
1,1,1-Trichloroethane	931	ug/l	4.6	15	40	20		8260	cps	12/2/99
1,1,2,2-Tetrachloroethane	< 5.8	ug/l	5.8	18	0.02	20		8260	cps	12/2/99
1,1,2-Trichloroethane	< 5.8	ug/l	5.8	18	0.5	20		8260	cps	12/2/99
1,1-Dichloroethane	41	ug/l	3	9.5	85	20		8260	cps	12/2/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
1,1-Dichloroethene	78	ug/l	7.2	23	0.7	20		8260	cps	12/2/99
1,1-Dichloropropene	< 9.8	ug/l	9.8	31	ns	20		8260	cps	12/2/99
1,2,3-Trichlorobenzene	< 4.4	ug/l	4.4	14	ns	20		8260	cps	12/2/99
1,2,3-Trichloropropane	< 12	ug/l	12	38	ns	20		8260	cps	12/2/99
1,2,4-Trichlorobenzene	< 3.2	ug/l	3.2	10	14	20		8260	cps	12/2/99
1,2,4-Trimethylbenzene	< 5.8	ug/l	5.8	18	ns	20		8260	cps	12/2/99
1,2-Dibromoethane	< 4.8	ug/l	4.8	15	0.005	20		8260	cps	12/2/99
1,2-Dichlorobenzene	< 4	ug/l	4	13	60	20		8260	cps	12/2/99
1,2-Dichloroethane	< 3.8	ug/l	3.8	12	0.5	20		8260	cps	12/2/99
1,2-Dichloropropane	< 4.6	ug/l	4.6	15	0.5	20		8260	cps	12/2/99
1,3,5-Trimethylbenzene	< 4.6	ug/l	4.6	15	ns	20		8260	cps	12/2/99
1,3-Dichlorobenzene	< 3.8	ug/l	3.8	12	125	20		8260	cps	12/2/99
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	ns	20		8260	cps	12/2/99
1,4-Dichlorobenzene	< 3	ug/l	3	9.5	15	20		8260	cps	12/2/99
1,2-Dibromo-3-chloropropan	< 12	ug/l	12	38	0.02	20		8260	cps	12/2/99
2,2-Dichloropropane	< 8	ug/l	8	25	ns	20		8260	cps	12/2/99
2-Butanone (MEK)	< 28	ug/l	28	88	90	20		8260	cps	12/2/99
2-Chloroethyl Vinyl Ether	< 5.8	ug/l	5.8	18	ns	20		8260	cps	12/2/99
2-Chlorotoluene	< 3	ug/l	3	9.5	ns	20		8260	cps	12/2/99
4-Chlorotoluene	< 5	ug/l	5	16	ns	20		8260	cps	12/2/99
4-Methyl-2-Pentanone	< 17	ug/l	17	53	50	20		8260	cps	12/2/99
Acetone	< 31	ug/l	31	99	200	20		8260	cps	12/2/99
Benzene	< 3.8	ug/l	3.8	12	0.5	20		8260	cps	12/2/99
Bromobenzene	< 3.8	ug/l	3.8	12	ns	20		8260	cps	12/2/99
Bromochloromethane	< 6.8	ug/l	6.8	22	ns	20		8260	cps	12/2/99
Bromodichloromethane	< 5.2	ug/l	5.2	17	0.06	20		8260	cps	12/2/99
Bromoform	< 9.4	ug/l	9.4	30	0.44	20		8260	cps	12/2/99
Bromomethane	< 4.2	ug/l	4.2	13	1	20		8260	cps	12/2/99
Carbon tetrachloride	128	ug/l	4.4	14	0.5	20		8260	cps	12/2/99
Chlorobenzene	< 4	ug/l	4	13	20	20		8260	cps	12/2/99
Chloroethane	87	ug/l	23	74	80	20		8260	cps	12/2/99
Chloroform	< 5.4	ug/l	5.4	17	0.6	20		8260	cps	12/2/99
Chloromethane	< 15	ug/l	15	49	0.3	20		8260	cps	12/2/99
cis-1,2-Dichloroethene	129	ug/l	4	13	7	20		8260	cps	12/2/99
cis-1,3-Dichloropropene	< 4.8	ug/l	4.8	15	0.02	20		8260	cps	12/2/99
Dibromochloromethane	< 4.2	ug/l	4.2	13	6	20		8260	cps	12/2/99
Dibromomethane	< 7	ug/l	7	22	ns	20		8260	cps	12/2/99
Dichlorodifluoromethane	< 7.2	ug/l	7.2	23	200	20		8260	cps	12/2/99
Ethylbenzene	< 3.2	ug/l	3.2	10	140	20		8260	cps	12/2/99
Hexachlorobutadiene	< 4.4	ug/l	4.4	14	ns	20		8260	cps	12/2/99
Isopropyl Ether	< 6.4	ug/l	6.4	20	ns	20		8260	cps	12/2/99
Isopropylbenzene	< 3.2	ug/l	3.2	10	ns	20		8260	cps	12/2/99
m&p-xylene	< 7.2	ug/l	7.2	23	124	20		8260	cps	12/2/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Methyl-t-butyl ether	< 4.2	ug/l	4.2	13	12	20		8260	cps	12/2/99
Methylene chloride	< 15	ug/l	15	48	0.5	20		8260	cps	12/2/99
n-Butylbenzene	< 4.6	ug/l	4.6	15	ns	20		8260	cps	12/2/99
n-Propylbenzene	< 5	ug/l	5	16	ns	20		8260	cps	12/2/99
Naphthalene	< 9.2	ug/l	9.2	29	8	20		8260	cps	12/2/99
o-xylene	< 3.6	ug/l	3.6	11	124	20		8260	cps	12/2/99
p-Isopropyltoluene	< 3.6	ug/l	3.6	11	ns	20		8260	cps	12/2/99
sec-Butylbenzene	< 6	ug/l	6	19	ns	20		8260	cps	12/2/99
Styrene	< 4.2	ug/l	4.2	13	10	20		8260	cps	12/2/99
tert-Butylbenzene	< 4	ug/l	4	13	ns	20		8260	cps	12/2/99
Tetrachloroethene	44	ug/l	5.8	18	0.5	20		8260	cps	12/2/99
Toluene	< 6.6	ug/l	6.6	21	68.6	20		8260	cps	12/2/99
trans-1,2-Dichloroethene	93	ug/l	3.2	10	20	20		8260	cps	12/2/99
trans-1,3-Dichloropropene	< 4	ug/l	4	13	0.02	20		8260	cps	12/2/99
Trichloroethene	1850	ug/l	3.2	10	0.5	20		8260	cps	12/2/99
Trichlorofluoromethane	< 6.8	ug/l	6.8	22	ns	20		8260	cps	12/2/99
Vinyl chloride	5.4	ug/l	4.2	13	0.02	20	J	8260	cps	12/2/99

Sample Number: 17762 QC Prep Batch Number: 992762 Sample analyzed within: 1 Day(s) from collection.

Client ID: 991201EW05 Sample Description: Collection: 12/1/99 Time: 13:50

1,1,1,2-Tetrachloroethane	< 4	ug/l	4	13	ns	20		8260	cps	12/2/99
1,1,1-Trichloroethane	260	ug/l	4.6	15	40	20		8260	cps	12/2/99
1,1,2,2-Tetrachloroethane	< 5.8	ug/l	5.8	18	0.02	20		8260	cps	12/2/99
1,1,2-Trichloroethane	< 5.8	ug/l	5.8	18	0.5	20		8260	cps	12/2/99
1,1-Dichloroethane	123	ug/l	3	9.5	85	20		8260	cps	12/2/99
1,1-Dichloroethene	22	ug/l	7.2	23	0.7	20	J	8260	cps	12/2/99
1,1-Dichloropropene	< 9.8	ug/l	9.8	31	ns	20		8260	cps	12/2/99
1,2,3-Trichlorobenzene	< 4.4	ug/l	4.4	14	ns	20		8260	cps	12/2/99
1,2,3-Trichloropropane	< 12	ug/l	12	38	ns	20		8260	cps	12/2/99
1,2,4-Trichlorobenzene	< 3.2	ug/l	3.2	10	14	20		8260	cps	12/2/99
1,2,4-Trimethylbenzene	< 5.8	ug/l	5.8	18	ns	20		8260	cps	12/2/99
1,2-Dibromoethane	< 4.8	ug/l	4.8	15	0.005	20		8260	cps	12/2/99
1,2-Dichlorobenzene	< 4	ug/l	4	13	60	20		8260	cps	12/2/99
1,2-Dichloroethane	4.6	ug/l	3.8	12	0.5	20	J	8260	cps	12/2/99
1,2-Dichloropropane	< 4.6	ug/l	4.6	15	0.5	20		8260	cps	12/2/99
1,3,5-Trimethylbenzene	< 4.6	ug/l	4.6	15	ns	20		8260	cps	12/2/99
1,3-Dichlorobenzene	< 3.8	ug/l	3.8	12	125	20		8260	cps	12/2/99
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	ns	20		8260	cps	12/2/99
1,4-Dichlorobenzene	< 3	ug/l	3	9.5	15	20		8260	cps	12/2/99
1,2-Dibromo-3-chloropropane	< 12	ug/l	12	38	0.02	20		8260	cps	12/2/99
2,2-Dichloropropane	< 8	ug/l	8	25	ns	20		8260	cps	12/2/99
2-Butanone (MEK)	< 28	ug/l	28	88	90	20		8260	cps	12/2/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
DATE REPORTED: 03-Dec-99
DATE RECEIVED: 02-Dec-99
SAMPLE TEMP (C): Rec On Ice
PROJECT ID: EW-Sampling
PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
2-Chloroethyl Vinyl Ether	<5.8	ug/l	5.8	18	ns	20		8260	cps	12/2/99
2-Chlorotoluene	<3	ug/l	3	9.5	ns	20		8260	cps	12/2/99
4-Chlorotoluene	<5	ug/l	5	16	ns	20		8260	cps	12/2/99
4-Methyl-2-Pentanone	<17	ug/l	17	53	50	20		8260	cps	12/2/99
Acetone	<31	ug/l	31	99	200	20		8260	cps	12/2/99
Benzene	4	ug/l	3.8	12	0.5	20	J	8260	cps	12/2/99
Bromobenzene	<3.8	ug/l	3.8	12	ns	20		8260	cps	12/2/99
Bromochloromethane	<6.8	ug/l	6.8	22	ns	20		8260	cps	12/2/99
Bromodichloromethane	<5.2	ug/l	5.2	17	0.06	20		8260	cps	12/2/99
Bromoform	<9.4	ug/l	9.4	30	0.44	20		8260	cps	12/2/99
Bromomethane	<4.2	ug/l	4.2	13	1	20		8260	cps	12/2/99
Carbon tetrachloride	35	ug/l	4.4	14	0.5	20		8260	cps	12/2/99
Chlorobenzene	6.8	ug/l	4	13	20	20	J	8260	cps	12/2/99
Chloroethane	<23	ug/l	23	74	80	20		8260	cps	12/2/99
Chloroform	<5.4	ug/l	5.4	17	0.6	20		8260	cps	12/2/99
Chloromethane	<15	ug/l	15	49	0.3	20		8260	cps	12/2/99
cis-1,2-Dichloroethene	128	ug/l	4	13	7	20		8260	cps	12/2/99
cis-1,3-Dichloropropene	<4.8	ug/l	4.8	15	0.02	20		8260	cps	12/2/99
Dibromochloromethane	<4.2	ug/l	4.2	13	6	20		8260	cps	12/2/99
Dibromomethane	<7	ug/l	7	22	ns	20		8260	cps	12/2/99
Dichlorodifluoromethane	9.2	ug/l	7.2	23	200	20	J	8260	cps	12/2/99
Ethylbenzene	<3.2	ug/l	3.2	10	140	20		8260	cps	12/2/99
Hexachlorobutadiene	<4.4	ug/l	4.4	14	ns	20		8260	cps	12/2/99
Isopropyl Ether	<6.4	ug/l	6.4	20	ns	20		8260	cps	12/2/99
Isopropylbenzene	<3.2	ug/l	3.2	10	ns	20		8260	cps	12/2/99
m&p-xylene	<7.2	ug/l	7.2	23	124	20		8260	cps	12/2/99
Methyl-t-butyl ether	<4.2	ug/l	4.2	13	12	20		8260	cps	12/2/99
Methylene chloride	<15	ug/l	15	48	0.5	20		8260	cps	12/2/99
n-Butylbenzene	<4.6	ug/l	4.6	15	ns	20		8260	cps	12/2/99
n-Propylbenzene	<5	ug/l	5	16	ns	20		8260	cps	12/2/99
Naphthalene	<9.2	ug/l	9.2	29	8	20		8260	cps	12/2/99
o-xylene	<3.6	ug/l	3.6	11	124	20		8260	cps	12/2/99
p-Isopropyltoluene	<3.6	ug/l	3.6	11	ns	20		8260	cps	12/2/99
sec-Butylbenzene	<6	ug/l	6	19	ns	20		8260	cps	12/2/99
Styrene	<4.2	ug/l	4.2	13	10	20		8260	cps	12/2/99
tert-Butylbenzene	<4	ug/l	4	13	ns	20		8260	cps	12/2/99
Tetrachloroethene	<5.8	ug/l	5.8	18	0.5	20		8260	cps	12/2/99
Toluene	<6.6	ug/l	6.6	21	68.6	20		8260	cps	12/2/99
trans-1,2-Dichloroethene	11	ug/l	3.2	10	20	20		8260	cps	12/2/99
trans-1,3-Dichloropropene	<4	ug/l	4	13	0.02	20		8260	cps	12/2/99
Trichloroethene	985	ug/l	3.2	10	0.5	20		8260	cps	12/2/99
Trichlorofluoromethane	19	ug/l	6.8	22	ns	20	J	8260	cps	12/2/99
Vinyl chloride	8.8	ug/l	4.2	13	0.02	20	J	8260	cps	12/2/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 17763 QC Prep Batch Number: 992762 Sample analyzed within 1 Day(s) from collection. Client ID: 991201WW-1 Sample Description: Collection: 12/1/99 Time:										
1,1,1,2-Tetrachloroethane	< 0.2	ug/l	0.2	0.64	ns	1	8260	cps		12/2/99
1,1,1-Trichloroethane	< 0.23	ug/l	0.23	0.73	40	1	8260	cps		12/2/99
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.92	0.02	1	8260	cps		12/2/99
1,1,2-Trichloroethane	< 0.29	ug/l	0.29	0.92	0.5	1	8260	cps		12/2/99
1,1-Dichloroethane	< 0.15	ug/l	0.15	0.48	85	1	8260	cps		12/2/99
1,1-Dichloroethene	< 0.36	ug/l	0.36	1.1	0.7	1	8260	cps		12/2/99
1,1-Dichloropropene	< 0.49	ug/l	0.49	1.6	ns	1	8260	cps		12/2/99
1,2,3-Trichlorobenzene	< 0.22	ug/l	0.22	0.7	ns	1	8260	cps		12/2/99
1,2,3-Trichloropropane	< 0.6	ug/l	0.6	1.9	ns	1	8260	cps		12/2/99
1,2,4-Trichlorobenzene	< 0.16	ug/l	0.16	0.51	14	1	8260	cps		12/2/99
1,2,4-Trimethylbenzene	< 0.29	ug/l	0.29	0.92	ns	1	8260	cps		12/2/99
1,2-Dibromoethane	< 0.24	ug/l	0.24	0.76	0.005	1	8260	cps		12/2/99
1,2-Dichlorobenzene	< 0.2	ug/l	0.2	0.64	60	1	8260	cps		12/2/99
1,2-Dichloroethane	< 0.19	ug/l	0.19	0.6	0.5	1	8260	cps		12/2/99
1,2-Dichloropropane	< 0.23	ug/l	0.23	0.73	0.5	1	8260	cps		12/2/99
1,3,5-Trimethylbenzene	< 0.23	ug/l	0.23	0.73	ns	1	8260	cps		12/2/99
1,3-Dichlorobenzene	< 0.19	ug/l	0.19	0.6	125	1	8260	cps		12/2/99
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.67	ns	1	8260	cps		12/2/99
1,4-Dichlorobenzene	< 0.15	ug/l	0.15	0.48	15	1	8260	cps		12/2/99
1,2-Dibromo-3-chloropropan	< 0.59	ug/l	0.59	1.9	0.02	1	8260	cps		12/2/99
2,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	ns	1	8260	cps		12/2/99
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	90	1	8260	cps		12/2/99
2-Chloroethyl Vinyl Ether	< 0.29	ug/l	0.29	0.92	ns	1	8260	cps		12/2/99
2-Chlorotoluene	< 0.15	ug/l	0.15	0.48	ns	1	8260	cps		12/2/99
4-Chlorotoluene	< 0.25	ug/l	0.25	0.8	ns	1	8260	cps		12/2/99
4-Methyl-2-Pentanone	< 0.84	ug/l	0.84	2.7	50	1	8260	cps		12/2/99
Acetone	< 1.6	ug/l	1.6	4.9	200	1	8260	cps		12/2/99
Benzene	< 0.19	ug/l	0.19	0.6	0.5	1	8260	cps		12/2/99
Bromobenzene	< 0.19	ug/l	0.19	0.6	ns	1	8260	cps		12/2/99
Bromochloromethane	< 0.34	ug/l	0.34	1.1	ns	1	8260	cps		12/2/99
Bromodichloromethane	< 0.26	ug/l	0.26	0.83	0.06	1	8260	cps		12/2/99
Bromoform	< 0.47	ug/l	0.47	1.5	0.44	1	8260	cps		12/2/99
Bromomethane	< 0.21	ug/l	0.21	0.67	1	1	8260	cps		12/2/99
Carbon tetrachloride	< 0.22	ug/l	0.22	0.7	0.5	1	8260	cps		12/2/99
Chlorobenzene	< 0.2	ug/l	0.2	0.64	20	1	8260	cps		12/2/99
Chloroethane	< 1.2	ug/l	1.2	3.7	80	1	8260	cps		12/2/99
Chloroform	< 0.27	ug/l	0.27	0.86	0.6	1	8260	cps		12/2/99
Chloromethane	< 0.77	ug/l	0.77	2.4	0.3	1	8260	cps		12/2/99
cis-1,2-Dichloroethene	< 0.2	ug/l	0.2	0.64	7	1	8260	cps		12/2/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-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	cps	12/2/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/2/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/2/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/2/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/2/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/2/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/2/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/2/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/2/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/2/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/2/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/2/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/2/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/2/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/2/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/2/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/2/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/2/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/2/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/2/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/2/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/2/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/2/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/2/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/2/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/2/99

Sample Number: 17764 QC Prep Batch Number: 992762 Sample analyzed within 1 Day(s) from collection.
 Client ID: Trip Blank Sample Description: Collection: 12/1/99 Time:

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/2/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/2/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/2/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/2/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/2/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/2/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/2/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/2/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/2/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/2/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/2/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/2/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/2/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

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



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990985
 DATE REPORTED: 03-Dec-99
 DATE RECEIVED: 02-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: EW-Sampling
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Styrene	< 0.21	ug/l	0.21	0.67	10	1		8260	cps	12/2/99
tert-Butylbenzene	< 0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/2/99
Tetrachloroethene	< 0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/2/99
Toluene	< 0.33	ug/l	0.33	1	68.6	1		8260	cps	12/2/99
trans-1,2-Dichloroethene	< 0.16	ug/l	0.16	0.51	20	1		8260	cps	12/2/99
trans-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/2/99
Trichloroethene	< 0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/2/99
Trichlorofluoromethane	< 0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/2/99
Vinyl chloride	< 0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/2/99

Approved By: 

James Chang, Ph.D., Lab Director

Date: 12/13/99

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

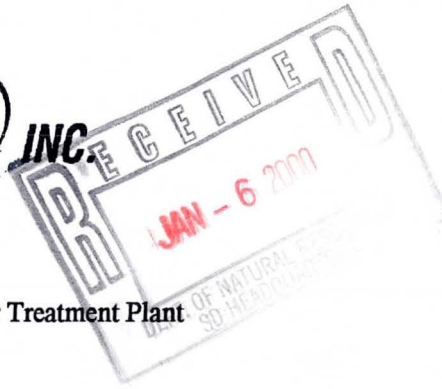
LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study

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 990970
 DATE REPORTED: 13-Dec-99
 DATE RECEIVED: 29-Nov-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID:
 PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 17689										
Client ID: 991129WA01P										
							Collection: 11/29/99	Time: 14:25		
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.12	mg/l	RJ	0.002	0.006	200.7	rf	12/3/99	992772	
Cadmium - Furnace AA	<0.7	ug/l	RJ	0.7	2.2	213.2	rf	11/30/99	992721	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/3/99	992772	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/3/99	992772	
Iron - ICAP	1.1	mg/l	RJ	0.078	0.25	200.7	rf	12/3/99	992772	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	11/30/99	992720	
Manganese - ICAP	0.16	mg/l	RJ	0.004	0.01	200.7	rf	12/3/99	992772	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/1/99	992754	
Nickel - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	rf	12/3/99	992772	
Selenium - Furnace AA	16	ug/l	J RJ	7.8	25	270.2	rf	12/8/99	992835	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/3/99	992772	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	rf	12/3/99	992772	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	11/30/99	992836	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	11/30/99	992730	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	11/30/99	992728	
pH (water)	7.1	s.u.	#			150.1	srh	11/29/99	992712	

Nova Sample Number: 17690
 Client ID: 991129WA09R

Collection: 11/29/99 Time: 13:05
 Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/7/99	992819	
Barium - ICAP	0.02	mg/l	RJ	0.002	0.006	200.7	rf	12/3/99	992772	
Cadmium - Furnace AA	<0.7	ug/l	RJ	0.7	2.2	213.2	rf	11/30/99	992721	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/3/99	992772	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/3/99	992772	
Iron - ICAP	0.3	mg/l	RJ	0.078	0.25	200.7	rf	12/3/99	992772	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	11/30/99	992720	
Manganese - ICAP	0.01	mg/l	J RJ	0.004	0.01	200.7	rf	12/3/99	992772	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	pm	12/1/99	992754	
Nickel - ICAP	14	ug/l	J RJ	10	32	200.7	rf	12/3/99	992772	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/8/99	992835	



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 990970
 DATE REPORTED: 13-Dec-99
 DATE RECEIVED: 29-Nov-99
 SAMPLE TEMP (C) Rec On Ice
 PROJECT ID:
 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	rf	12/3/99	992772	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/8/99	992818	
Zinc - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	rf	12/3/99	992772	

Nova Sample Number: 17691

Client ID: 991129WA02P

Collection: 11/29/99 Time: 13:15

Sample Description:

pH (water)	9.3	s.u.	#	150.1	srh	11/29/99	992712
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Nova Sample Number: 17692

Client ID: 991129WA03P

Collection: 11/29/99 Time: 13:16

Sample Description:

pH (water)	11	s.u.	#	150.1	srh	11/29/99	992712
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Nova Sample Number: 17693

Client ID: 991129WA05P

Collection: 11/29/99 Time: 13:10

Sample Description:

pH (water)	8.4	s.u.	#	150.1	srh	11/29/99	992712
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Nova Sample Number: 17695

Client ID: 991129WA09P

Collection: 11/29/99 Time: 13:00

Sample Description:

Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	11/30/99	992836	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	11/30/99	992730	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	11/30/99	992728	
pH (water)	8.5	s.u.	#	150.1	srh	11/29/99	992712			

Approved By:  Date: 12/13/99
 James Chang, Ph.D., Lab Director

RJ Result expressed as Total.

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B "J" = Results between LOD and LOQ "#" = no LOD or LOQ required.

LOQ = 10 (S) x Dilution 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
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 2572 Oak St.
 Ashippun, WI 53003

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990970
 DATE REPORTED: 01-Dec-99
 DATE RECEIVED: 29-Nov-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID:
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
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Sample Number: 17689 QC Prep Batch Number: 992740 Sample analyzed within: 1 Day(s) from collection.

Client ID: 991129WA01P Sample Description: Collection: 11/29/99 Time: 14:25

1,1,1,2-Tetrachloroethane	<2	ug/l	2	6.4	ns	10		8260	cps	11/30/99
1,1,1-Trichloroethane	198	ug/l	2.3	7.3	40	10		8260	cps	11/30/99
1,1,2,2-Tetrachloroethane	<2.9	ug/l	2.9	9.2	0.02	10		8260	cps	11/30/99
1,1,2-Trichloroethane	<2.9	ug/l	2.9	9.2	0.5	10		8260	cps	11/30/99
1,1-Dichloroethane	34	ug/l	1.5	4.8	85	10		8260	cps	11/30/99
1,1-Dichloroethene	17	ug/l	3.6	11	0.7	10		8260	cps	11/30/99
1,1-Dichloropropene	<4.9	ug/l	4.9	16	ns	10		8260	cps	11/30/99
1,2,3-Trichlorobenzene	<2.2	ug/l	2.2	7	ns	10		8260	cps	11/30/99
1,2,3-Trichloropropane	<6	ug/l	6	19	ns	10		8260	cps	11/30/99
1,2,4-Trichlorobenzene	<1.6	ug/l	1.6	5.1	14	10		8260	cps	11/30/99
1,2,4-Trimethylbenzene	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	11/30/99
1,2-Dibromoethane	<2.4	ug/l	2.4	7.6	0.005	10		8260	cps	11/30/99
1,2-Dichlorobenzene	<2	ug/l	2	6.4	60	10		8260	cps	11/30/99
1,2-Dichloroethane	<1.9	ug/l	1.9	6	0.5	10		8260	cps	11/30/99
1,2-Dichloropropane	<2.3	ug/l	2.3	7.3	0.5	10		8260	cps	11/30/99
1,3,5-Trimethylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	11/30/99
1,3-Dichlorobenzene	<1.9	ug/l	1.9	6	125	10		8260	cps	11/30/99
1,3-Dichloropropane	<2.1	ug/l	2.1	6.7	ns	10		8260	cps	11/30/99
1,4-Dichlorobenzene	<1.5	ug/l	1.5	4.8	15	10		8260	cps	11/30/99
1,2-Dibromo-3-chloropropan	<5.9	ug/l	5.9	19	0.02	10		8260	cps	11/30/99
2,2-Dichloropropane	<4	ug/l	4	13	ns	10		8260	cps	11/30/99
2-Butanone (MEK)	<14	ug/l	14	44	90	10		8260	cps	11/30/99
2-Chloroethyl Vinyl Ether	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	11/30/99
2-Chlorotoluene	<1.5	ug/l	1.5	4.8	ns	10		8260	cps	11/30/99
4-Chlorotoluene	<2.5	ug/l	2.5	8	ns	10		8260	cps	11/30/99
4-Methyl-2-Pentanone	<8.4	ug/l	8.4	27	50	10		8260	cps	11/30/99
Acetone	<16	ug/l	16	49	200	10		8260	cps	11/30/99
Benzene	<1.9	ug/l	1.9	6	0.5	10		8260	cps	11/30/99
Bromobenzene	<1.9	ug/l	1.9	6	ns	10		8260	cps	11/30/99
Bromochloromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	11/30/99
Bromodichloromethane	<2.6	ug/l	2.6	8.3	0.06	10		8260	cps	11/30/99
Bromoform	<4.7	ug/l	4.7	15	0.44	10		8260	cps	11/30/99
Bromomethane	<2.1	ug/l	2.1	6.7	1	10		8260	cps	11/30/99
Carbon tetrachloride	<2.2	ug/l	2.2	7	0.5	10		8260	cps	11/30/99
Chlorobenzene	<2	ug/l	2	6.4	20	10		8260	cps	11/30/99
Chloroethane	<12	ug/l	12	37	80	10		8260	cps	11/30/99
Chloroform	<2.7	ug/l	2.7	8.6	0.6	10		8260	cps	11/30/99
Chloromethane	<7.7	ug/l	7.7	24	0.3	10		8260	cps	11/30/99
cis-1,2-Dichloroethene	54	ug/l	2	6.4	7	10		8260	cps	11/30/99
cis-1,3-Dichloropropene	<2.4	ug/l	2.4	7.6	0.02	10		8260	cps	11/30/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990970
 DATE REPORTED: 01-Dec-99
 DATE RECEIVED: 29-Nov-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID:
 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	11/30/99
Dibromomethane	<3.5	ug/l	3.5	11	ns	10		8260	cps	11/30/99
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	200	10		8260	cps	11/30/99
Ethylbenzene	<1.6	ug/l	1.6	5.1	140	10		8260	cps	11/30/99
Hexachlorobutadiene	<2.2	ug/l	2.2	7	ns	10		8260	cps	11/30/99
Isopropyl Ether	<3.2	ug/l	3.2	10	ns	10		8260	cps	11/30/99
Isopropylbenzene	<1.6	ug/l	1.6	5.1	ns	10		8260	cps	11/30/99
m&p-xylene	<3.6	ug/l	3.6	11	124	10		8260	cps	11/30/99
Methyl-t-butyl ether	<2.1	ug/l	2.1	6.7	12	10		8260	cps	11/30/99
Methylene chloride	<7.6	ug/l	7.6	24	0.5	10		8260	cps	11/30/99
n-Butylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	11/30/99
n-Propylbenzene	<2.5	ug/l	2.5	8	ns	10		8260	cps	11/30/99
Naphthalene	<4.6	ug/l	4.6	15	8	10		8260	cps	11/30/99
o-xylene	<1.8	ug/l	1.8	5.7	124	10		8260	cps	11/30/99
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	ns	10		8260	cps	11/30/99
sec-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	11/30/99
Styrene	<2.1	ug/l	2.1	6.7	10	10		8260	cps	11/30/99
tert-Butylbenzene	<2	ug/l	2	6.4	ns	10		8260	cps	11/30/99
Tetrachloroethene	<2.9	ug/l	2.9	9.2	0.5	10		8260	cps	11/30/99
Toluene	<3.3	ug/l	3.3	10	68.6	10		8260	cps	11/30/99
trans-1,2-Dichloroethene	16	ug/l	1.6	5.1	20	10		8260	cps	11/30/99
trans-1,3-Dichloropropene	<2	ug/l	2	6.4	0.02	10		8260	cps	11/30/99
Trichloroethene	572	ug/l	1.6	5.1	0.5	10		8260	cps	11/30/99
Trichlorofluoromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	11/30/99
Vinyl chloride	<2.1	ug/l	2.1	6.7	0.02	10		8260	cps	11/30/99

Sample Number: 17694 QC Prep Batch Number: 992740 Sample analyzed within 1 Day(s) from collection.

Client ID: 991129WA07P Sample Description: Collection: 11/29/99 Time: 13:10

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	11/30/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	11/30/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	11/30/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	11/30/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	11/30/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	11/30/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	11/30/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	11/30/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	11/30/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	11/30/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	11/30/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	11/30/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	11/30/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	11/30/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990970
 DATE REPORTED: 01-Dec-99
 DATE RECEIVED: 29-Nov-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID:
 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	11/30/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	11/30/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	11/30/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	11/30/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	11/30/99
12Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	11/30/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	11/30/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	11/30/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	11/30/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	11/30/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	11/30/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	11/30/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	11/30/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	11/30/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	11/30/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	11/30/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	11/30/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	11/30/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	11/30/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	11/30/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	11/30/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	11/30/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	11/30/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	11/30/99
cis-1,2-Dichloroethene	0.2	ug/l	0.2	0.64	7	1		8260	cps	11/30/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	11/30/99
Dibromochloromethane	0.25	ug/l	0.21	0.67	6	1	J	8260	cps	11/30/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	11/30/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	11/30/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	11/30/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	11/30/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	11/30/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	11/30/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	11/30/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	11/30/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	11/30/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	11/30/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	11/30/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	11/30/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	11/30/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	11/30/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	11/30/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	11/30/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990970
 DATE REPORTED: 01-Dec-99
 DATE RECEIVED: 29-Nov-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID:
 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	11/30/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	11/30/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	11/30/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	11/30/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	11/30/99
Trichloroethene	0.93	ug/l	0.16	0.51	0.5	1		8260	cps	11/30/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	11/30/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	11/30/99

Sample Number: 17695 QC Prep Batch Number: 992740 Sample analyzed within 1 Day(s) from collection

Client ID: 991129WA09P Sample Description: Collection: 11/29/99 Time: 13:00

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	11/30/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	11/30/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	11/30/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	11/30/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	11/30/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	11/30/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	11/30/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	11/30/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	11/30/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	11/30/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	11/30/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	11/30/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	11/30/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	11/30/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	11/30/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	11/30/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	11/30/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	11/30/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	11/30/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	11/30/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	11/30/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	11/30/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	11/30/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	11/30/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	11/30/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	11/30/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	11/30/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	11/30/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	11/30/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	11/30/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	11/30/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990970
 DATE REPORTED: 01-Dec-99
 DATE RECEIVED: 29-Nov-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	11/30/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	11/30/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	11/30/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	11/30/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	11/30/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	11/30/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	11/30/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	11/30/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	11/30/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	11/30/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	11/30/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	11/30/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	11/30/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	11/30/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	11/30/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	11/30/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	11/30/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	11/30/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	11/30/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	11/30/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	11/30/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	11/30/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	11/30/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	11/30/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	11/30/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	11/30/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	11/30/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	11/30/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	11/30/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	11/30/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	11/30/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	11/30/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	11/30/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	11/30/99

Sample Number: 17696 QC Prep Batch Number: 992740 Sample analyzed within: 1 Day(s) from collection

Client ID: Trip Blank Sample Description: Collection: 11/29/99 Time:

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	11/30/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	11/30/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	11/30/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	11/30/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	11/30/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990970
 DATE REPORTED: 01-Dec-99
 DATE RECEIVED: 30-Nov-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		11/30/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1	8260	cps		11/30/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1	8260	cps		11/30/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1	8260	cps		11/30/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1	8260	cps		11/30/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1	8260	cps		11/30/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1	8260	cps		11/30/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1	8260	cps		11/30/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1	8260	cps		11/30/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1	8260	cps		11/30/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1	8260	cps		11/30/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1	8260	cps		11/30/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1	8260	cps		11/30/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1	8260	cps		11/30/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1	8260	cps		11/30/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1	8260	cps		11/30/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1	8260	cps		11/30/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1	8260	cps		11/30/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1	8260	cps		11/30/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1	8260	cps		11/30/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1	8260	cps		11/30/99
Acetone	<1.6	ug/l	1.6	4.9	200	1	8260	cps		11/30/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1	8260	cps		11/30/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1	8260	cps		11/30/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1	8260	cps		11/30/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1	8260	cps		11/30/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1	8260	cps		11/30/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1	8260	cps		11/30/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1	8260	cps		11/30/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1	8260	cps		11/30/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1	8260	cps		11/30/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1	8260	cps		11/30/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1	8260	cps		11/30/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1	8260	cps		11/30/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1	8260	cps		11/30/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1	8260	cps		11/30/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1	8260	cps		11/30/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1	8260	cps		11/30/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1	8260	cps		11/30/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1	8260	cps		11/30/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1	8260	cps		11/30/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1	8260	cps		11/30/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1	8260	cps		11/30/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 990970
 DATE REPORTED: 01-Dec-99
 DATE RECEIVED: 30-Nov-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	11/30/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	11/30/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	11/30/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	11/30/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	11/30/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	11/30/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	11/30/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	11/30/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	11/30/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	11/30/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	11/30/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	11/30/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	11/30/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	11/30/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	11/30/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	11/30/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	11/30/99

Approved By: 

James Chang, Ph.D., Lab Director

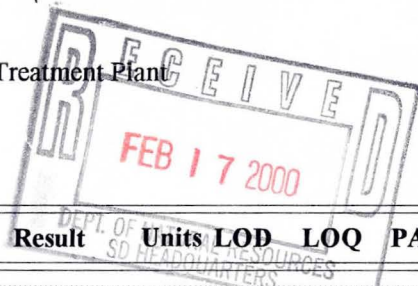
Date: 12/13/99

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.



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991025
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 09-Dec-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: 17941 QC Prep Batch Number: 992938 Sample analyzed within 5 Day(s) from collection. Client ID: 991209WA01P Sample Description: Collection: 12/9/99 Time: 13:20										
1,1,1,2-Tetrachloroethane	<2	ug/l	2	6.4	ns	10		8260	cps	12/14/99
1,1,1-Trichloroethane	257	ug/l	2.3	7.3	40	10		8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<2.9	ug/l	2.9	9.2	0.02	10		8260	cps	12/14/99
1,1,2-Trichloroethane	<2.9	ug/l	2.9	9.2	0.5	10		8260	cps	12/14/99
1,1-Dichloroethane	35	ug/l	1.5	4.8	85	10		8260	cps	12/14/99
1,1-Dichloroethene	22	ug/l	3.6	11	0.7	10		8260	cps	12/14/99
1,1-Dichloropropene	<4.9	ug/l	4.9	16	ns	10		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<2.2	ug/l	2.2	7	ns	10		8260	cps	12/14/99
1,2,3-Trichloropropane	<6	ug/l	6	19	ns	10		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<1.6	ug/l	1.6	5.1	14	10		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/14/99
1,2-Dibromoethane	<2.4	ug/l	2.4	7.6	0.005	10		8260	cps	12/14/99
1,2-Dichlorobenzene	<2	ug/l	2	6.4	60	10		8260	cps	12/14/99
1,2-Dichloroethane	<1.9	ug/l	1.9	6	0.5	10		8260	cps	12/14/99
1,2-Dichloropropane	<2.3	ug/l	2.3	7.3	0.5	10		8260	cps	12/14/99
1,3,5-Trimethylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/14/99
1,3-Dichlorobenzene	<1.9	ug/l	1.9	6	125	10		8260	cps	12/14/99
1,3-Dichloropropane	<2.1	ug/l	2.1	6.7	ns	10		8260	cps	12/14/99
1,4-Dichlorobenzene	<1.5	ug/l	1.5	4.8	15	10		8260	cps	12/14/99
1,2-Dibromo-3-chloropropan	<5.9	ug/l	5.9	19	0.02	10		8260	cps	12/14/99
2,2-Dichloropropane	<4	ug/l	4	13	ns	10		8260	cps	12/14/99
2-Butanone (MEK)	<14	ug/l	14	44	90	10		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/14/99
2-Chlorotoluene	<1.5	ug/l	1.5	4.8	ns	10		8260	cps	12/14/99
4-Chlorotoluene	<2.5	ug/l	2.5	8	ns	10		8260	cps	12/14/99
4-Methyl-2-Pentanone	<8.4	ug/l	8.4	27	50	10		8260	cps	12/14/99
Acetone	<16	ug/l	16	49	200	10		8260	cps	12/14/99
Benzene	<1.9	ug/l	1.9	6	0.5	10		8260	cps	12/14/99
Bromobenzene	<1.9	ug/l	1.9	6	ns	10		8260	cps	12/14/99
Bromochloromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	12/14/99
Bromodichloromethane	<2.6	ug/l	2.6	8.3	0.06	10		8260	cps	12/14/99
Bromoform	<4.7	ug/l	4.7	15	0.44	10		8260	cps	12/14/99
Bromomethane	<2.1	ug/l	2.1	6.7	1	10		8260	cps	12/14/99
Carbon tetrachloride	<2.2	ug/l	2.2	7	0.5	10		8260	cps	12/14/99
Chlorobenzene	<2	ug/l	2	6.4	20	10		8260	cps	12/14/99
Chloroethane	16	ug/l	12	37	80	10	J	8260	cps	12/14/99
Chloroform	<2.7	ug/l	2.7	8.6	0.6	10		8260	cps	12/14/99
Chloromethane	<7.7	ug/l	7.7	24	0.3	10		8260	cps	12/14/99
cis-1,2-Dichloroethene	55	ug/l	2	6.4	7	10		8260	cps	12/14/99
cis-1,3-Dichloropropene	<2.4	ug/l	2.4	7.6	0.02	10		8260	cps	12/14/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991025
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 09-Dec-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	cps	12/14/99
Dibromomethane	<3.5	ug/l	3.5	11	ns	10		8260	cps	12/14/99
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	200	10		8260	cps	12/14/99
Ethylbenzene	<1.6	ug/l	1.6	5.1	140	10		8260	cps	12/14/99
Hexachlorobutadiene	<2.2	ug/l	2.2	7	ns	10		8260	cps	12/14/99
Isopropyl Ether	<3.2	ug/l	3.2	10	ns	10		8260	cps	12/14/99
Isopropylbenzene	<1.6	ug/l	1.6	5.1	ns	10		8260	cps	12/14/99
m&p-xylene	<3.6	ug/l	3.6	11	124	10		8260	cps	12/14/99
Methyl-t-butyl ether	<2.1	ug/l	2.1	6.7	12	10		8260	cps	12/14/99
Methylene chloride	<7.6	ug/l	7.6	24	0.5	10		8260	cps	12/14/99
n-Butylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/14/99
n-Propylbenzene	<2.5	ug/l	2.5	8	ns	10		8260	cps	12/14/99
Naphthalene	<4.6	ug/l	4.6	15	8	10		8260	cps	12/14/99
o-xylene	<1.8	ug/l	1.8	5.7	124	10		8260	cps	12/14/99
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	ns	10		8260	cps	12/14/99
sec-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	12/14/99
Styrene	<2.1	ug/l	2.1	6.7	10	10		8260	cps	12/14/99
tert-Butylbenzene	<2	ug/l	2	6.4	ns	10		8260	cps	12/14/99
Tetrachloroethene	6.1	ug/l	2.9	9.2	0.5	10	J	8260	cps	12/14/99
Toluene	<3.3	ug/l	3.3	10	68.6	10		8260	cps	12/14/99
trans-1,2-Dichloroethene	16	ug/l	1.6	5.1	20	10		8260	cps	12/14/99
trans-1,3-Dichloropropene	<2	ug/l	2	6.4	0.02	10		8260	cps	12/14/99
Trichloroethene	629	ug/l	1.6	5.1	0.5	10		8260	cps	12/14/99
Trichlorofluoromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	12/14/99
Vinyl chloride	<2.1	ug/l	2.1	6.7	0.02	10		8260	cps	12/14/99

Sample Number: 17944 QC Prep Batch Number: 992936 Sample analyzed within 5 Day(s) from collection.

Client ID: 991209WA07P Sample Description: Collection: 12/9/99 Time: 14:00

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
1,1,1-Trichloroethane	0.34	ug/l	0.23	0.73	40	1	J	8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/14/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/14/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/14/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/14/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991025
DATE REPORTED: 15-Dec-99
DATE RECEIVED: 09-Dec-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	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/14/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/14/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/14/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/14/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/14/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/14/99
2-Butanone (MEK)	23	ug/l	1.4	4.4	90	1		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/14/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/14/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/14/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/14/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Bromodichloromethane	0.41	ug/l	0.26	0.83	0.06	1	J	8260	cps	12/14/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/14/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/14/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/14/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/14/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/14/99
Chloroform	0.45	ug/l	0.27	0.86	0.6	1	J	8260	cps	12/14/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/14/99
cis-1,2-Dichloroethene	0.39	ug/l	0.2	0.64	7	1	J	8260	cps	12/14/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/14/99
Dibromochloromethane	0.49	ug/l	0.21	0.67	6	1	J	8260	cps	12/14/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/14/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/14/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/14/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/14/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/14/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/14/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/14/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/14/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/14/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/14/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/14/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/14/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991025
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 09-Dec-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	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/14/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/14/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/14/99
Trichloroethene	1.8	ug/l	0.16	0.51	0.5	1		8260	cps	12/14/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/14/99

Sample Number: 17945 QC Prep Batch Number: 992938 Sample analyzed within 5 Day(s) from collection
 Client ID: 991209WA09P Sample Description: Collection: 12/9/99 Time: 14:10

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/14/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/14/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/14/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/14/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/14/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/14/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/14/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/14/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/14/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/14/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/14/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/14/99
Acetone	20	ug/l	1.6	4.9	200	1		8260	cps	12/14/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/14/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/14/99



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

WDNR# 241340550

BATCH NUMBER: 991025
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 10-Dec-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	cps	12/14/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/14/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/14/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/14/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/14/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/14/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/14/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/14/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/14/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/14/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/14/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/14/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/14/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/14/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/14/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/14/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/14/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/14/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/14/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/14/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/14/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/14/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/14/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/14/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/14/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/14/99
Trichloroethene	0.47	ug/l	0.16	0.51	0.5	1	J	8260	cps	12/14/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/14/99

Sample Number:	17948	QC Prep Batch Number:	992938	Sample analyzed within:	5 Day(s) from collection.				
Client ID	Trip Blank	Sample Description	Collection:	12/9/99	Time:				
1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1	8260	cps	12/14/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1	8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1	8260	cps	12/14/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1	8260	cps	12/14/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1	8260	cps	12/14/99



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James Chang
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2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991025
DATE REPORTED: 15-Dec-99
DATE RECEIVED: 10-Dec-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	cps	12/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/14/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/14/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/14/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/14/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/14/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/14/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/14/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/14/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/14/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/14/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/14/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/14/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/14/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/14/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/14/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/14/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/14/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/14/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/14/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/14/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/14/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/14/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/14/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/14/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/14/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/14/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/14/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/14/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/14/99



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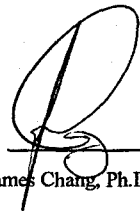
James Chang
 Oconomowoc Groundwater Treatment Plant
 2572 Oak St.
 Ashippun, WI 53003

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991025
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 10-Dec-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	cps	12/14/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/14/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/14/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/14/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/14/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/14/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/14/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/14/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/14/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/14/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/14/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/14/99

Approved By:  Date: 1/4/99
 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 991025
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 09-Dec-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: 17941										
Client ID: 991209WA01P										
							Collection: 12/9/99	Time: 13:20		
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.11	mg/l	RJ	0.002	0.006	200.7	rf	12/15/99	992932	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/14/99	992928	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/15/99	992932	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Iron - ICAP	1	mg/l	RJ	0.078	0.25	200.7	rf	12/15/99	992932	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/14/99	992927	
Manganese - ICAP	0.15	mg/l	RJ	0.004	0.01	200.7	rf	12/15/99	992932	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	rf	12/16/99	992973	
Nickel - ICAP	0.04	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Selenium - Furnace AA	13	ug/l	J RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/15/99	992932	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
COD, Total	20	mg/l	J	7.3	23	410.4-CT	805353	12/20/99	993019	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992960	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992957	
pH (water)	7.4	s.u.	#			150.1	ag	12/10/99	992875	
Solids, Total Suspended	3	mg/l		0.5	1.6	SM 2540	rf	12/13/99	992942	

Nova Sample Number: 17942
 Client ID: 991209WA09R

Collection: 12/9/99 Time: 14:20
 Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.03	mg/l	RJ	0.002	0.006	200.7	rf	12/15/99	992932	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/14/99	992928	
Chromium, Total - ICAP	0.01	mg/l	J RJ	0.012	0.04	200.7	rf	12/15/99	992932	
Copper - ICAP	0.01	mg/l	J RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Iron - ICAP	0.29	mg/l	RJ	0.078	0.25	200.7	rf	12/15/99	992932	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/14/99	992927	
Manganese - ICAP	0.006	mg/l	J RJ	0.004	0.01	200.7	rf	12/15/99	992932	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	rf	12/16/99	992973	
Nickel - ICAP	0.02	mg/l	J RJ	0.01	0.03	200.7	rf	12/15/99	992932	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 991025
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 09-Dec-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
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/15/99	992932	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
COD, Total	9.4	mg/l	J	7.3	23	410.4-CT	805353	12/20/99	993019	
Nitrate + Nitrite Nitrogen	0.4	mg/l		0.04	0.13	353.3	srh	12/14/99	992948	
Nitrogen, Ammonia	<0.10	mg/l		1.25	4.0	350.1	805353	12/16/99	993020	
Phosphorus, Total	<0.10	mg/l		0.1	0.32	365.2	805353	12/17/99	993022	
Solids, Total Suspended	<0.5	mg/l		0.5	1.6	SM 2540	rf	12/13/99	992942	

Nova Sample Number: 17943

Client ID: 991209WA05P

Collection: 12/9/99

Time: 13:50

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.02	mg/l	RJ	0.002	0.006	200.7	rf	12/15/99	992932	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/14/99	992928	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/15/99	992932	
Copper - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Iron - ICAP	<0.078	mg/l	RJ	0.078	0.25	200.7	rf	12/15/99	992932	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/14/99	992927	
Manganese - ICAP	0.005	mg/l	J RJ	0.004	0.01	200.7	rf	12/15/99	992932	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	rf	12/16/99	992973	
Nickel - ICAP	13	ug/l	J RJ	10	32	200.7	rf	12/15/99	992932	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/15/99	992932	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
pH (water)	8.3	s.u.	#			150.1	ag	12/10/99	992875	

Nova Sample Number: 17944

Client ID: 991209WA07P

Collection: 12/9/99

Time: 14:00

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992965	
Barium - ICAP	0.02	mg/l	RJ	0.002	0.006	200.7	rf	12/15/99	992932	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/14/99	992928	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/15/99	992932	



INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 991025
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 09-Dec-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
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Iron - ICAP	<0.078	mg/l	RJ	0.078	0.25	200.7	rf	12/15/99	992932	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/14/99	992927	
Manganese - ICAP	0.005	mg/l	J RJ	0.004	0.01	200.7	rf	12/15/99	992932	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	rf	12/16/99	992973	
Nickel - ICAP	10	ug/l	J RJ	10	32	200.7	rf	12/15/99	992932	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/17/99	992968	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/15/99	992932	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992940	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	

Nova Sample Number: 17945

Client ID: 991209WA09P

Collection: 12/9/99 Time: 14:10

Sample Description:

Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992960
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992957

Nova Sample Number: 17946

Client ID: 991209WA02P

Collection: 12/9/99 Time: 13:30

Sample Description:

Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992960
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992957
pH (water)	9.9	s.u.	#			150.1	ag	12/10/99	992875

Nova Sample Number: 17947

Client ID: 991209WA03P

Collection: 12/9/99 Time: 13:40

Sample Description:

pH (water)	11	s.u.	#			150.1	ag	12/10/99	992875
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Nova Sample Number: 17949

Client ID: 991209WA01P

Collection: 12/9/99 Time: 06:45

Sample Description:

Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900
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Nova Sample Number: 17950

Client ID: 991209WA09P

Collection: 12/9/99 Time:

Sample Description:

Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	128053	12/7/99	992900
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INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER 991025
DATE REPORTED: 04-Jan-00
DATE RECEIVED: 10-Dec-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
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Approved By: 

James Chang, Ph.D. , Lab Director

Date: 1/14/00

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.

APL Environmental

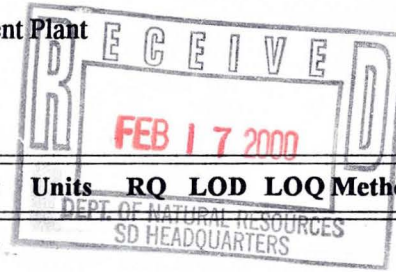
8222 W. Calumet Rd., Milwaukee, WI 53224-9008
Phone: (414) 355-5800 Fax: (414) 355-3099

INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER: 991063
DATE REPORTED: 06-Jan-00
DATE RECEIVED: 20-Dec-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: 18110										
Client ID: 991220WA01P										
Collection: 12/20/99 Time: 15:30										
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	J RJ	9.9	31	206.2	rf	12/28/99	993059	
Barium - ICAP	0.104	mg/l	rj	0.002	0.006	200.7	rf	12/29/99	993077	
Cadmium - Furnace AA	<0.7	ug/l	J TTR	0.7	2.2	213.2	rf	12/28/99	993057	
Chromium, Total - ICAP	<0.012	mg/l	J rj	0.012	0.04	200.7	rf	12/29/99	993077	
Copper- ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Iron - ICAP	0.936	mg/l	rj	0.078	0.25	200.7	rf	12/29/99	993077	
Lead - Furnace AA	<1.4	ug/l	J RJ	1.4	4.5	239.2	rf	12/28/99	993055	
Manganese - ICAP	0.147	mg/l	rj	0.004	0.01	200.7	rf	12/29/99	993077	
Mercury CV	<0.0002	mg/l	J RJ	0.0002	0.0006	245.1	pm	12/28/99	993046	
Nickel - ICAP	0.031	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Selenium - Furnace AA	<7.8	ug/l	J RJ	7.8	25	270.2	rf	12/30/99	993092	
Silver - ICAP	<0.009	mg/l	J rj	0.009	0.03	200.7	rf	12/29/99	993077	
Thallium - Furnace AA	<4.8	ug/l	J RJ	4.8	15	279.2	rf	12/28/99	993058	
Zinc - ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Chromium, Hexavalent	<0.0042	mg/l	J	0.004	0.01	SM 3500	805353	12/21/99	993045	
Cyanide, Amenable	<0.006	mg/l	J	0.006	0.02	335.2	srh	12/29/99	993068	
Cyanide, Total	0.008	mg/l	J	0.006	0.02	335.2	srh	12/29/99	993066	
pH (water)	7.2	s.u.	#			150.1	ag	12/20/99	993030	

Nova Sample Number: 18111

Client ID: 991220WA09R

Collection: 12/20/99

Time: 15:30

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	J RJ	9.9	31	206.2	rf	12/28/99	993059	
Barium - ICAP	0.023	mg/l	rj	0.002	0.006	200.7	rf	12/29/99	993077	
Cadmium - Furnace AA	<0.7	ug/l	J TTR	0.7	2.2	213.2	rf	12/28/99	993057	
Chromium, Total - ICAP	<0.012	mg/l	J rj	0.012	0.04	200.7	rf	12/29/99	993077	
Copper- ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Iron - ICAP	0.080	mg/l	J rj	0.078	0.25	200.7	rf	12/29/99	993077	
Lead - Furnace AA	<1.4	ug/l	J RJ	1.4	4.5	239.2	rf	12/28/99	993055	
Manganese - ICAP	<0.004	mg/l	J rj	0.004	0.01	200.7	rf	12/29/99	993077	
Mercury CV	<0.0002	mg/l	J RJ	0.0002	0.0006	245.1	pm	12/28/99	993046	
Nickel - ICAP	0.011	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	

"J" = Results between LOD and LOQ "#" = no LOD or LOQ required.

Page: 1

APL Environmental

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

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 991063
 DATE REPORTED: 06-Jan-00
 DATE RECEIVED: 21-Dec-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
Selenium - Furnace AA	<7.8	ug/l	J RJ	7.8	25	270.2	rf	12/30/99	993092	
Silver - ICAP	<0.009	mg/l	J rj	0.009	0.03	200.7	rf	12/29/99	993077	
Thallium - Furnace AA	<4.8	ug/l	J RJ	4.8	15	279.2	rf	12/28/99	993058	
Zinc - ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Nova Sample Number: 18112										
Client ID: 991220WA02P										
pH (water)	8.5	s.u.	#			150.1	ag	12/20/99	993030	Collection: 12/20/99 Time: 15:30 Sample Description:
Nova Sample Number: 18113										
Client ID: 991220WA03P										
pH (water)	11.32	s.u.	#			150.1	ag	12/20/99	993030	Collection: 12/20/99 Time: 15:40 Sample Description:
Nova Sample Number: 18114										
Client ID: 991220WA05P										
pH (water)	7.4	s.u.	#			150.1	ag	12/20/99	993030	Collection: 12/20/99 Time: 15:50 Sample Description:
Nova Sample Number: 18116										
Client ID: 991220WA09P										
Chromium, Hexavalent	<0.0042	mg/l	J	0.004	0.01	SM 3500	805353	12/21/99	993045	
Cyanide, Amenable	<0.006	mg/l	J	0.006	0.02	335.2	srh	12/29/99	993068	
Cyanide, Total	<0.006	mg/l	J	0.006	0.02	335.2	srh	12/29/99	993066	
pH (water)	not done	s.u.	#			150.1	ag	12/20/99	993030	no sample

APL Environmental

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Phone: (414) 355-5800 Fax: (414) 355-3099

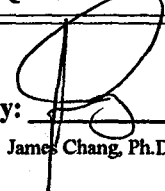
INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER 991063
DATE REPORTED: 06-Jan-00
DATE RECEIVED: 20-Dec-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
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Approved By:  Date: 1/15/00
James Chang, Ph.D., Lab Director

RJ Result expressed as Total.

TTR Result expressed as total and total recoverable.

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B

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: 991063
 DATE REPORTED: 27-Dec-99
 DATE RECEIVED: 20-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling 12/
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 18110 QC Prep Batch Number: 993038 Sample analyzed within 1 Day(s) from collection. Client ID: 991220WA01P Sample Description: Collection: 12/20/99 Time: 15:30										
1,1,1,2-Tetrachloroethane	<2	ug/l	2	6.4	ns	10		8260	cps	12/21/99
1,1,1-Trichloroethane	243	ug/l	2.3	7.3	40	10		8260	cps	12/21/99
1,1,2,2-Tetrachloroethane	<2.9	ug/l	2.9	9.2	0.02	10		8260	cps	12/21/99
1,1,2-Trichloroethane	<2.9	ug/l	2.9	9.2	0.5	10		8260	cps	12/21/99
1,1-Dichloroethane	39	ug/l	1.5	4.8	85	10		8260	cps	12/21/99
1,1-Dichloroethene	23	ug/l	3.6	11	0.7	10		8260	cps	12/21/99
1,1-Dichloropropene	<4.9	ug/l	4.9	16	ns	10		8260	cps	12/21/99
1,2,3-Trichlorobenzene	<2.2	ug/l	2.2	7	ns	10		8260	cps	12/21/99
1,2,3-Trichloropropane	<6	ug/l	6	19	ns	10		8260	cps	12/21/99
1,2,4-Trichlorobenzene	<1.6	ug/l	1.6	5.1	14	10		8260	cps	12/21/99
1,2,4-Trimethylbenzene	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/21/99
1,2-Dibromoethane	<2.4	ug/l	2.4	7.6	0.005	10		8260	cps	12/21/99
1,2-Dichlorobenzene	<2	ug/l	2	6.4	60	10		8260	cps	12/21/99
1,2-Dichloroethane	<1.9	ug/l	1.9	6	0.5	10		8260	cps	12/21/99
1,2-Dichloropropane	<2.3	ug/l	2.3	7.3	0.5	10		8260	cps	12/21/99
1,3,5-Trimethylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/21/99
1,3-Dichlorobenzene	<1.9	ug/l	1.9	6	125	10		8260	cps	12/21/99
1,3-Dichloropropane	<2.1	ug/l	2.1	6.7	ns	10		8260	cps	12/21/99
1,4-Dichlorobenzene	<1.5	ug/l	1.5	4.8	15	10		8260	cps	12/21/99
1,2-Dibromo-3-chloropropan	<5.9	ug/l	5.9	19	0.02	10		8260	cps	12/21/99
2,2-Dichloropropane	<4	ug/l	4	13	ns	10		8260	cps	12/21/99
2-Butanone (MEK)	<14	ug/l	14	44	90	10		8260	cps	12/21/99
2-Chloroethyl Vinyl Ether	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/21/99
2-Chlorotoluene	<1.5	ug/l	1.5	4.8	ns	10		8260	cps	12/21/99
4-Chlorotoluene	<2.5	ug/l	2.5	8	ns	10		8260	cps	12/21/99
4-Methyl-2-Pentanone	<8.4	ug/l	8.4	27	50	10		8260	cps	12/21/99
Acetone	<16	ug/l	16	49	200	10		8260	cps	12/21/99
Benzene	2.1	ug/l	1.9	6	0.5	10	J	8260	cps	12/21/99
Bromobenzene	<1.9	ug/l	1.9	6	ns	10		8260	cps	12/21/99
Bromochloromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	12/21/99
Bromodichloromethane	<2.6	ug/l	2.6	8.3	0.06	10		8260	cps	12/21/99
Bromoform	<4.7	ug/l	4.7	15	0.44	10		8260	cps	12/21/99
Bromomethane	<2.1	ug/l	2.1	6.7	1	10		8260	cps	12/21/99
Carbon tetrachloride	<2.2	ug/l	2.2	7	0.5	10		8260	cps	12/21/99
Chlorobenzene	2.5	ug/l	2	6.4	20	10	J	8260	cps	12/21/99
Chloroethane	22	ug/l	12	37	80	10	J	8260	cps	12/21/99
Chloroform	<2.7	ug/l	2.7	8.6	0.6	10		8260	cps	12/21/99
Chloromethane	<7.7	ug/l	7.7	24	0.3	10		8260	cps	12/21/99
cis-1,2-Dichloroethene	59	ug/l	2	6.4	7	10		8260	cps	12/21/99
cis-1,3-Dichloropropene	<2.4	ug/l	2.4	7.6	0.02	10		8260	cps	12/21/99



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James Chang
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991063
 DATE REPORTED: 27-Dec-99
 DATE RECEIVED: 20-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling 12/
 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	12/21/99
Dibromomethane	<3.5	ug/l	3.5	11	ns	10		8260	cps	12/21/99
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	200	10		8260	cps	12/21/99
Ethylbenzene	<1.6	ug/l	1.6	5.1	140	10		8260	cps	12/21/99
Hexachlorobutadiene	<2.2	ug/l	2.2	7	ns	10		8260	cps	12/21/99
Isopropyl Ether	<3.2	ug/l	3.2	10	ns	10		8260	cps	12/21/99
Isopropylbenzene	<1.6	ug/l	1.6	5.1	ns	10		8260	cps	12/21/99
m&p-xylene	<3.6	ug/l	3.6	11	124	10		8260	cps	12/21/99
Methyl-t-butyl ether	<2.1	ug/l	2.1	6.7	12	10		8260	cps	12/21/99
Methylene chloride	<7.6	ug/l	7.6	24	0.5	10		8260	cps	12/21/99
n-Butylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/21/99
n-Propylbenzene	<2.5	ug/l	2.5	8	ns	10		8260	cps	12/21/99
Naphthalene	<4.6	ug/l	4.6	15	8	10		8260	cps	12/21/99
o-xylene	<1.8	ug/l	1.8	5.7	124	10		8260	cps	12/21/99
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	ns	10		8260	cps	12/21/99
sec-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	12/21/99
Styrene	<2.1	ug/l	2.1	6.7	10	10		8260	cps	12/21/99
tert-Butylbenzene	<2	ug/l	2	6.4	ns	10		8260	cps	12/21/99
Tetrachloroethene	7.2	ug/l	2.9	9.2	0.5	10	J	8260	cps	12/21/99
Toluene	<3.3	ug/l	3.3	10	68.6	10		8260	cps	12/21/99
trans-1,2-Dichloroethene	18	ug/l	1.6	5.1	20	10		8260	cps	12/21/99
trans-1,3-Dichloropropene	<2	ug/l	2	6.4	0.02	10		8260	cps	12/21/99
Trichloroethene	608	ug/l	1.6	5.1	0.5	10		8260	cps	12/21/99
Trichlorofluoromethane	5.6	ug/l	3.4	11	ns	10	J	8260	cps	12/21/99
Vinyl chloride	2.4	ug/l	2.1	6.7	0.02	10	J	8260	cps	12/21/99

Sample Number: 18115 QC Prep Batch Number: 993038 Sample analyzed within: 1 Day(s) from collection.

Client ID: 991220WA07P Sample Description: Collection: 12/20/99 Time: 16:00

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/21/99
1,1,1-Trichloroethane	0.91	ug/l	0.23	0.73	40	1		8260	cps	12/21/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/21/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/21/99
1,1-Dichloroethane	0.44	ug/l	0.15	0.48	85	1	J	8260	cps	12/21/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/21/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/21/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/21/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/21/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/21/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/21/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/21/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/21/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/21/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991063
 DATE REPORTED: 27-Dec-99
 DATE RECEIVED: 20-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling 12/
 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	12/21/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/21/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/21/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/21/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/21/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/21/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/21/99
2-Butanone (MEK)	9.2	ug/l	1.4	4.4	90	1		8260	cps	12/21/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/21/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/21/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/21/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/21/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/21/99
Benzene	0.26	ug/l	0.19	0.6	0.5	1	J	8260	cps	12/21/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/21/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/21/99
Bromodichloromethane	0.35	ug/l	0.26	0.83	0.06	1	J	8260	cps	12/21/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/21/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/21/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/21/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/21/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/21/99
Chloroform	0.59	ug/l	0.27	0.86	0.6	1	J	8260	cps	12/21/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/21/99
cis-1,2-Dichloroethene	0.61	ug/l	0.2	0.64	7	1	J	8260	cps	12/21/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/21/99
Dibromochloromethane	0.23	ug/l	0.21	0.67	6	1	J	8260	cps	12/21/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/21/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/21/99
Ethylbenzene	0.22	ug/l	0.16	0.51	140	1	J	8260	cps	12/21/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/21/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/21/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/21/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/21/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/21/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/21/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/21/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/21/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/21/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/21/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/21/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/21/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/21/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991063
 DATE REPORTED: 27-Dec-99
 DATE RECEIVED: 20-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling 12/
 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	12/21/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/21/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/21/99
trans-1,2-Dichloroethene	0.31	ug/l	0.16	0.51	20	1	J	8260	cps	12/21/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/21/99
Trichloroethene	2.6	ug/l	0.16	0.51	0.5	1		8260	cps	12/21/99
Trichlorofluoromethane	0.71	ug/l	0.34	1.1	ns	1	J	8260	cps	12/21/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/21/99

Sample Number: 18116 QC Prep Batch Number: 993038 Sample analyzed within: 1 Day(s) from collection.

Client ID: 991220WA09P Sample Description: Collection: 12/20/99 Time: 16:10

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/21/99
1,1,1-Trichloroethane	0.31	ug/l	0.23	0.73	40	1	J	8260	cps	12/21/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/21/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/21/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/21/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/21/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/21/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/21/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/21/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/21/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/21/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/21/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/21/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/21/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/21/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/21/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/21/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/21/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/21/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/21/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/21/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/21/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/21/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/21/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/21/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/21/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/21/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/21/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/21/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/21/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/21/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991063
 DATE REPORTED: 27-Dec-99
 DATE RECEIVED: 20-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling 12/
 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	12/21/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/21/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/21/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/21/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/21/99
Chloroform	0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/21/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/21/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/21/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/21/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/21/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/21/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/21/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/21/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/21/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/21/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/21/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/21/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/21/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/21/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/21/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/21/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/21/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/21/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/21/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/21/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/21/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/21/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/21/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/21/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/21/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/21/99
Trichloroethene	0.83	ug/l	0.16	0.51	0.5	1		8260	cps	12/21/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/21/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/21/99

Sample Number: 18117 QC Prep Batch Number: 993838 Sample analyzed within: 1 Day(s) from collection

Client ID: Trip Blank Sample Description: Collection: 12/20/99 Time:

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/21/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/21/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/21/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/21/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/21/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991063
 DATE REPORTED: 27-Dec-99
 DATE RECEIVED: 21-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling 12/
 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	12/21/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/21/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/21/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/21/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/21/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/21/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/21/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/21/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/21/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/21/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/21/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/21/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/21/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/21/99
1,2-Dibromo-3-chloropropane	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/21/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/21/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/21/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/21/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/21/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/21/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/21/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/21/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/21/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/21/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/21/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/21/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/21/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/21/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/21/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/21/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/21/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/21/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/21/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/21/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/21/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/21/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/21/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/21/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/21/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/21/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/21/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/21/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/21/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991063
 DATE REPORTED: 27-Dec-99
 DATE RECEIVED: 21-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling 12/
 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	12/21/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/21/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/21/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/21/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/21/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/21/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/21/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/21/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/21/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/21/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/21/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/21/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/21/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/21/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/21/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/21/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/21/99

Approved By: 

Date: 1/4/00

James Chang, Ph.D., Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B

"e" = Estimate value, over calibration range.

LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study

LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study

PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified

RQ: Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for

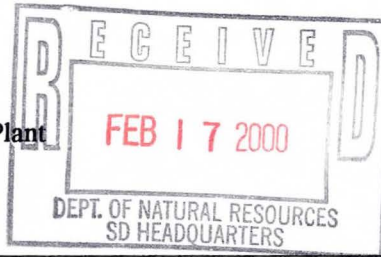
concentrations between 1-99 ug/L, and one significant figure for lower concentrations.

DNR Analytical Detection Limit Guidance, April 1995.



INORGANIC REPORT

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



WDNR# 241340550

INVOICE NUMBER 991039
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 13-Dec-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: 17981										
Client ID: 991213WA01P										
								Collection: 12/13/99	Time: 13:00	
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992966	
Barium - ICAP	0.11	mg/l	RJ	0.002	0.006	200.7	rf	12/15/99	992932	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/14/99	992928	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/15/99	992932	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Iron - ICAP	0.88	mg/l	RJ	0.078	0.25	200.7	rf	12/15/99	992932	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/14/99	992927	
Manganese - ICAP	0.15	mg/l	RJ	0.004	0.01	200.7	rf	12/15/99	992932	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	rf	12/16/99	992973	
Nickel - ICAP	0.03	mg/l	J RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Selenium - Furnace AA	16	ug/l	J RJ	7.8	25	270.2	rf	12/17/99	992970	
Silver - ICAP	<0.009	mg/l	RJ	0.009	0.03	200.7	rf	12/15/99	992932	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992941	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	12/14/99	993017	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992960	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992959	
pH (water)	7.2	s.u.	#			150.1	sh	12/13/99	992921	

Nova Sample Number: 17982

Client ID: 991213WA09R

Collection: 12/13/99

Time: 12:00

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	RJ	9.9	31	206.2	rf	12/16/99	992966	
Barium - ICAP	0.02	mg/l	RJ	0.002	0.006	200.7	rf	12/15/99	992932	
Cadmium - Furnace AA	<0.7	ug/l	TTR	0.7	2.2	213.2	rf	12/14/99	992928	
Chromium, Total - ICAP	<0.012	mg/l	RJ	0.012	0.04	200.7	rf	12/15/99	992932	
Copper- ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Iron - ICAP	0.09	mg/l	J RJ	0.078	0.25	200.7	rf	12/15/99	992932	
Lead - Furnace AA	<1.4	ug/l	RJ	1.4	4.5	239.2	rf	12/14/99	992927	
Manganese - ICAP	0.004	mg/l	J RJ	0.004	0.01	200.7	rf	12/15/99	992932	
Mercury CV	<0.0002	mg/l	RJ	0.0002	0.0006	245.1	rf	12/16/99	992973	
Nickel - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	
Selenium - Furnace AA	<7.8	ug/l	RJ	7.8	25	270.2	rf	12/17/99	992970	



INORGANIC REPORT

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

WDNR# 241340550
 INVOICE NUMBER 991039
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 13-Dec-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	rf	12/15/99	992932	
Thallium - Furnace AA	<4.8	ug/l	RJ	4.8	15	279.2	rf	12/15/99	992941	
Zinc - ICAP	<0.01	mg/l	RJ	0.01	0.03	200.7	rf	12/15/99	992932	

Nova Sample Number: 17983
 Client ID: 991213WA02P

Collection: 12/13/99 Time: 13:15
 Sample Description:

pH (water)	9.4	s.u.	#			150.1	sh	12/13/99	992921	
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Nova Sample Number: 17984
 Client ID: 991213WA03P

Collection: 12/13/99 Time: 13:16
 Sample Description:

pH (water)	11	s.u.	#			150.1	sh	12/13/99	992921	
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Nova Sample Number: 17985
 Client ID: 991213WA05P

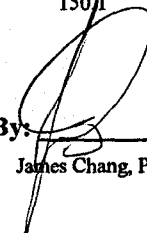
Collection: 12/13/99 Time: 13:20
 Sample Description:

pH (water)	8.2	s.u.	#			150.1	sh	12/13/99	992921	
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Nova Sample Number: 17987
 Client ID: 991213WA09P

Collection: 12/13/99 Time: 13:00
 Sample Description:

Chromium, Hexavalent	<0.0042	mg/l		0.004	0.01	SM 3500	805353	12/14/99	993017	
Cyanide, Amenable	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992960	
Cyanide, Total	<0.006	mg/l		0.006	0.02	335.2	srh	12/16/99	992959	
pH (water)	8.2	s.u.	#			150/l	sh	12/13/99	992921	

Approved By: 
 James Chang, Ph.D., Lab Director

Date: 1/4/00

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
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991039
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 13-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 17981										
QC Prep Batch Number: 992938										
Sample analyzed within 1 Day(s) from collection.										
Client ID: 991213WA01P Sample Description: Collection: 12/13/99 Time: 13:00										
1,1,1,2-Tetrachloroethane	<2	ug/l	2	6.4	ns	10		8260	cps	12/14/99
1,1,1-Trichloroethane	253	ug/l	2.3	7.3	40	10		8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<2.9	ug/l	2.9	9.2	0.02	10		8260	cps	12/14/99
1,1,2-Trichloroethane	<2.9	ug/l	2.9	9.2	0.5	10		8260	cps	12/14/99
1,1-Dichloroethane	37	ug/l	1.5	4.8	85	10		8260	cps	12/14/99
1,1-Dichloroethene	22	ug/l	3.6	11	0.7	10		8260	cps	12/14/99
1,1-Dichloropropene	<4.9	ug/l	4.9	16	ns	10		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<2.2	ug/l	2.2	7	ns	10		8260	cps	12/14/99
1,2,3-Trichloropropane	<6	ug/l	6	19	ns	10		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<1.6	ug/l	1.6	5.1	14	10		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/14/99
1,2-Dibromoethane	<2.4	ug/l	2.4	7.6	0.005	10		8260	cps	12/14/99
1,2-Dichlorobenzene	<2	ug/l	2	6.4	60	10		8260	cps	12/14/99
1,2-Dichloroethane	<1.9	ug/l	1.9	6	0.5	10		8260	cps	12/14/99
1,2-Dichloropropane	<2.3	ug/l	2.3	7.3	0.5	10		8260	cps	12/14/99
1,3,5-Trimethylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/14/99
1,3-Dichlorobenzene	<1.9	ug/l	1.9	6	125	10		8260	cps	12/14/99
1,3-Dichloropropane	<2.1	ug/l	2.1	6.7	ns	10		8260	cps	12/14/99
1,4-Dichlorobenzene	<1.5	ug/l	1.5	4.8	15	10		8260	cps	12/14/99
1,2-Dibromo-3-chloropropane	<5.9	ug/l	5.9	19	0.02	10		8260	cps	12/14/99
2,2-Dichloropropane	<4	ug/l	4	13	ns	10		8260	cps	12/14/99
2-Butanone (MEK)	<14	ug/l	14	44	90	10		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	12/14/99
2-Chlorotoluene	<1.5	ug/l	1.5	4.8	ns	10		8260	cps	12/14/99
4-Chlorotoluene	<2.5	ug/l	2.5	8	ns	10		8260	cps	12/14/99
4-Methyl-2-Pentanone	<8.4	ug/l	8.4	27	50	10		8260	cps	12/14/99
Acetone	<16	ug/l	16	49	200	10		8260	cps	12/14/99
Benzene	<1.9	ug/l	1.9	6	0.5	10		8260	cps	12/14/99
Bromobenzene	<1.9	ug/l	1.9	6	ns	10		8260	cps	12/14/99
Bromochloromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	12/14/99
Bromodichloromethane	<2.6	ug/l	2.6	8.3	0.06	10		8260	cps	12/14/99
Bromoform	<4.7	ug/l	4.7	15	0.44	10		8260	cps	12/14/99
Bromomethane	<2.1	ug/l	2.1	6.7	1	10		8260	cps	12/14/99
Carbon tetrachloride	<2.2	ug/l	2.2	7	0.5	10		8260	cps	12/14/99
Chlorobenzene	<2	ug/l	2	6.4	20	10		8260	cps	12/14/99
Chloroethane	18	ug/l	12	37	80	10	J	8260	cps	12/14/99
Chloroform	<2.7	ug/l	2.7	8.6	0.6	10		8260	cps	12/14/99
Chloromethane	<7.7	ug/l	7.7	24	0.3	10		8260	cps	12/14/99
cis-1,2-Dichloroethene	61	ug/l	2	6.4	7	10		8260	cps	12/14/99
cis-1,3-Dichloropropene	<2.4	ug/l	2.4	7.6	0.02	10		8260	cps	12/14/99



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James Chang
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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991039
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 13-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	12/14/99
Dibromomethane	<3.5	ug/l	3.5	11	ns	10		8260	cps	12/14/99
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	200	10		8260	cps	12/14/99
Ethylbenzene	<1.6	ug/l	1.6	5.1	140	10		8260	cps	12/14/99
Hexachlorobutadiene	<2.2	ug/l	2.2	7	ns	10		8260	cps	12/14/99
Isopropyl Ether	<3.2	ug/l	3.2	10	ns	10		8260	cps	12/14/99
Isopropylbenzene	<1.6	ug/l	1.6	5.1	ns	10		8260	cps	12/14/99
m&p-xylene	<3.6	ug/l	3.6	11	124	10		8260	cps	12/14/99
Methyl-t-butyl ether	<2.1	ug/l	2.1	6.7	12	10		8260	cps	12/14/99
Methylene chloride	<7.6	ug/l	7.6	24	0.5	10		8260	cps	12/14/99
n-Butylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	12/14/99
n-Propylbenzene	<2.5	ug/l	2.5	8	ns	10		8260	cps	12/14/99
Naphthalene	<4.6	ug/l	4.6	15	8	10		8260	cps	12/14/99
o-xylene	<1.8	ug/l	1.8	5.7	124	10		8260	cps	12/14/99
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	ns	10		8260	cps	12/14/99
sec-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	12/14/99
Styrene	<2.1	ug/l	2.1	6.7	10	10		8260	cps	12/14/99
tert-Butylbenzene	<2	ug/l	2	6.4	ns	10		8260	cps	12/14/99
Tetrachloroethene	6	ug/l	2.9	9.2	0.5	10	J	8260	cps	12/14/99
Toluene	<3.3	ug/l	3.3	10	68.6	10		8260	cps	12/14/99
trans-1,2-Dichloroethene	18	ug/l	1.6	5.1	20	10		8260	cps	12/14/99
trans-1,3-Dichloropropene	<2	ug/l	2	6.4	0.02	10		8260	cps	12/14/99
Trichloroethene	609	ug/l	1.6	5.1	0.5	10		8260	cps	12/14/99
Trichlorofluoromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	12/14/99
Vinyl chloride	<2.1	ug/l	2.1	6.7	0.02	10		8260	cps	12/14/99

Sample Number: 17986 QC Prep Batch Number: 992938 Sample analyzed within 1 Day(s) from collection.
 Client ID: 991213WA07P Sample Description: Collection: 12/13/99 Time: 13:21

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
1,1,1-Trichloroethane	0.38	ug/l	0.23	0.73	40	1	J	8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/14/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/14/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/14/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/14/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991039
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 14-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	12/14/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/14/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/14/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/14/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/14/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/14/99
2-Butanone (MEK)	4.6	ug/l	1.4	4.4	90	1		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/14/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/14/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/14/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/14/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Bromodichloromethane	0.27	ug/l	0.26	0.83	0.06	1	J	8260	cps	12/14/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/14/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/14/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/14/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/14/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/14/99
Chloroform	0.35	ug/l	0.27	0.86	0.6	1	J	8260	cps	12/14/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/14/99
cis-1,2-Dichloroethene	0.38	ug/l	0.2	0.64	7	1	J	8260	cps	12/14/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/14/99
Dibromochloromethane	0.34	ug/l	0.21	0.67	6	1	J	8260	cps	12/14/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/14/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/14/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/14/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/14/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/14/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/14/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/14/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/14/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/14/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/14/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/14/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/14/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/14/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991039
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 14-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	12/14/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/14/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/14/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/14/99
Trichloroethene	1.8	ug/l	0.16	0.51	0.5	1		8260	cps	12/14/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/14/99

Sample Number: 17987 QC Prep Batch Number: 992938 Sample analyzed within 1 Day(s) from collection.
 Client ID: 991213WA09P Sample Description: Collection: 12/13/99 Time: 13:00

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	12/14/99
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	12/14/99
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	12/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/14/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/14/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/14/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/14/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/14/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/14/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/14/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/14/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/14/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/14/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/14/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/14/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/14/99



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991039
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 14-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	12/14/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/14/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/14/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/14/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/14/99
Chloroform	0.34	ug/l	0.27	0.86	0.6	1	J	8260	cps	12/14/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/14/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/14/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/14/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/14/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/14/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/14/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/14/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/14/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/14/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/14/99
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	12/14/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/14/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/14/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/14/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/14/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/14/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/14/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/14/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/14/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/14/99
Trichloroethene	0.44	ug/l	0.16	0.51	0.5	1	J	8260	cps	12/14/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/14/99

Sample Number	QC Prep Batch Number	Sample analyzed within						
17988	992938	1 Day(s) from collection						
Client ID	Sample Description	Collection	Time					
Trip BLank		12/13/99						
1,1,1,2-Tetrachloroethane	<0.2 ug/l	0.2	0.64	ns	1	8260	cps	12/14/99
1,1,1-Trichloroethane	<0.23 ug/l	0.23	0.73	40	1	8260	cps	12/14/99
1,1,2,2-Tetrachloroethane	<0.29 ug/l	0.29	0.92	0.02	1	8260	cps	12/14/99
1,1,2-Trichloroethane	<0.29 ug/l	0.29	0.92	0.5	1	8260	cps	12/14/99
1,1-Dichloroethane	<0.15 ug/l	0.15	0.48	85	1	8260	cps	12/14/99



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991039
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 13-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	12/14/99
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	12/14/99
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	12/14/99
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	12/14/99
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	12/14/99
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	12/14/99
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	12/14/99
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	12/14/99
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	12/14/99
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	12/14/99
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	12/14/99
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	12/14/99
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	12/14/99
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	12/14/99
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	12/14/99
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	12/14/99
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	12/14/99
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	12/14/99
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	12/14/99
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	12/14/99
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	12/14/99
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	12/14/99
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	12/14/99
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	12/14/99
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	12/14/99
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	12/14/99
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	12/14/99
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	12/14/99
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	12/14/99
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	12/14/99
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	12/14/99
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	12/14/99
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	12/14/99
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	12/14/99
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	12/14/99
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	12/14/99
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	12/14/99



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

WDNR# 241340550

BATCH NUMBER: 991039
 DATE REPORTED: 15-Dec-99
 DATE RECEIVED: 13-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	12/14/99
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	12/14/99
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	12/14/99
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	12/14/99
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	12/14/99
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	12/14/99
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	12/14/99
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	12/14/99
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	12/14/99
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	12/14/99
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	12/14/99
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	12/14/99
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	12/14/99
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	12/14/99
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	12/14/99
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	12/14/99
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	12/14/99

Approved By: 

Date: 11/4/00

James Chang, Ph.D., Lab Director

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B "e" = Estimate value, over calibration range.
 LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
 LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study
 PAL: Preventive Action Limit, NR 140.10 Public health related groundwater standards. "ns" = not specified
 RQ: Run Qualifier; "J" = Results between LOD and LOQ. "RR" = Re-extract Rerun sample, "B" = Showed in Blank sample.
 Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.
 DNR Analytical Detection Limit Guidance, April 1995.

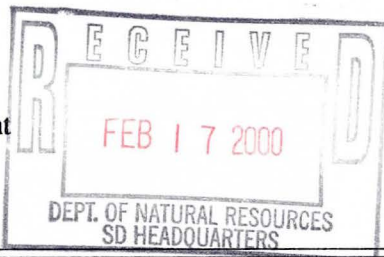
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INORGANIC REPORT

WDNR# 241340550

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



INVOICE NUMBER 991079
 DATE REPORTED: 06-Jan-00
 DATE RECEIVED: 28-Dec-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: 18175										
Client ID: 991227WA01P										
								Collection: 12/27/99	Time: 10:25	
Sample Description:										
Arsenic - Furnace AA	<9.9	ug/l	J RJ	9.9	31	206.2	rf	12/28/99	993059	
Barium - ICAP	0.100	mg/l	rj	0.002	0.006	200.7	rf	12/29/99	993077	
Cadmium - Furnace AA	<0.7	ug/l	J TTR	0.7	2.2	213.2	rf	12/28/99	993057	
Chromium, Total - ICAP	<0.012	mg/l	J rj	0.012	0.04	200.7	rf	12/29/99	993077	
Copper- ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Iron - ICAP	1.08	mg/l	rj	0.078	0.25	200.7	rf	12/29/99	993077	
Lead - Furnace AA	<1.4	ug/l	J RJ	1.4	4.5	239.2	rf	1/4/2000	993113	
Manganese - ICAP	0.116	mg/l	rj	0.004	0.01	200.7	rf	12/29/99	993077	
Mercury CV	<0.0002	mg/l	J RJ	0.0002	0.0006	245.1	pm	12/30/99	993094	
Nickel - ICAP	0.018	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Selenium - Furnace AA	15.3	ug/l	J RJ	7.8	25	270.2	rf	12/30/99	993092	
Silver - ICAP	<0.009	mg/l	J rj	0.009	0.03	200.7	rf	12/29/99	993077	
Thallium - Furnace AA	<4.8	ug/l	J RJ	4.8	15	279.2	rf	12/28/99	993058	
Zinc - ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Chromium, Hexavalent	<0.0042	mg/l	J	0.004	0.01	SM 3500	128053	12/28/99	993100	
Cyanide, Amenable	<0.006	mg/l	J	0.006	0.02	335.2	srh	12/29/99	993068	
Cyanide, Total	0.007	mg/l	J	0.006	0.02	335.2	srh	12/29/99	993067	
pH (water)	7.15	s.u.	#			150.1	dd	12/27/99	993069	

Nova Sample Number: 18176

Client ID: 991227WA09R

Collection: 12/27/99

Time: 09:45

Sample Description:

Arsenic - Furnace AA	<9.9	ug/l	J RJ	9.9	31	206.2	rf	12/28/99	993059	
Barium - ICAP	0.021	mg/l	rj	0.002	0.006	200.7	rf	12/29/99	993077	
Cadmium - Furnace AA	<0.7	ug/l	J TTR	0.7	2.2	213.2	rf	12/28/99	993057	
Chromium, Total - ICAP	<0.012	mg/l	J rj	0.012	0.04	200.7	rf	12/29/99	993077	
Copper- ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	
Iron - ICAP	0.078	mg/l	J rj	0.078	0.25	200.7	rf	12/29/99	993077	
Lead - Furnace AA	<1.4	ug/l	J RJ	1.4	4.5	239.2	rf	1/4/2000	993113	
Manganese - ICAP	<0.004	mg/l	J rj	0.004	0.01	200.7	rf	12/29/99	993077	
Mercury CV	<0.0002	mg/l	J RJ	0.0002	0.0006	245.1	pm	12/30/99	993094	
Nickel - ICAP	0.014	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	

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James Chang
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 2572 Oak St.
 Ashippun, WI 53003

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 991079
 DATE REPORTED: 06-Jan-00
 DATE RECEIVED: 28-Dec-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
Selenium - Furnace AA	<7.8	ug/l	J RJ	7.8	25	270.2	rf	12/30/99	993092	
Silver - ICAP	<0.009	mg/l	J rj	0.009	0.03	200.7	rf	12/29/99	993077	
Thallium - Furnace AA	<4.8	ug/l	J RJ	4.8	15	279.2	rf	12/28/99	993058	
Zinc - ICAP	<0.01	mg/l	J rj	0.01	0.03	200.7	rf	12/29/99	993077	

Nova Sample Number: 18177

Client ID: 991227WA02P

pH (water) 9.34 s.u. # 150.1

Collection: 12/27/99 Time: 09:50
 Sample Description:

dd 12/27/99 993069

Nova Sample Number: 18178

Client ID: 991227WA03P

pH (water) 11.12 s.u. # 150.1

Collection: 12/27/99 Time: 10:00
 Sample Description:

dd 12/27/99 993069

Nova Sample Number: 18179

Client ID: 991227WA05P

pH (water) 6.95 s.u. # 150.1

Collection: 12/27/99 Time: 10:05
 Sample Description:

dd 12/27/99 993069

Nova Sample Number: 18181

Client ID: 991227WA09P

Chromium, Hexavalent <0.0042 mg/l J 0.004 0.01 SM 3500 128053 12/28/99 993100
 Cyanide, Amenable <0.006 mg/l J 0.006 0.02 335.2 srh 12/29/99 993068
 Cyanide, Total <0.006 mg/l J 0.006 0.02 335.2 srh 12/29/99 993067
 pH (water) 7.65 s.u. # 150.1 dd 12/27/99 993069

Collection: 12/27/99 Time: 10:30
 Sample Description:

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INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER 991079
DATE REPORTED: 06-Jan-00
DATE RECEIVED: 28-Dec-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
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Approved By: 

Date: 1/5/00

James Chang, Ph.D., Lab Director

RJ Result expressed as Total.

TTR Result expressed as total and total recoverable.

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B

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
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991079
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 28-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 PROJECT NAME: OGTP

Compound	Result	Units	LOD	LOQ	PAL	Dil	RQ	Method	Analyst	Date Anal
Sample Number: 18175										
QC Prep Batch Number: 993110										
Sample analyzed within 7 Day(s) from collection.										
Client ID: 991227WA01P Sample Description: Collection: 12/27/99 Time: 10:25										
1,1,1,2-Tetrachloroethane	<2	ug/l	2	6.4	ns	10		8260	cps	1/3/2000
1,1,1-Trichloroethane	200	ug/l	2.3	7.3	40	10		8260	cps	1/3/2000
1,1,2,2-Tetrachloroethane	<2.9	ug/l	2.9	9.2	0.02	10		8260	cps	1/3/2000
1,1,2-Trichloroethane	<2.9	ug/l	2.9	9.2	0.5	10		8260	cps	1/3/2000
1,1-Dichloroethane	42	ug/l	1.5	4.8	85	10		8260	cps	1/3/2000
1,1-Dichloroethene	16	ug/l	3.6	11	0.7	10		8260	cps	1/3/2000
1,1-Dichloropropene	<4.9	ug/l	4.9	16	ns	10		8260	cps	1/3/2000
1,2,3-Trichlorobenzene	<2.2	ug/l	2.2	7	ns	10		8260	cps	1/3/2000
1,2,3-Trichloropropane	<6	ug/l	6	19	ns	10		8260	cps	1/3/2000
1,2,4-Trichlorobenzene	<1.6	ug/l	1.6	5.1	14	10		8260	cps	1/3/2000
1,2,4-Trimethylbenzene	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	1/3/2000
1,2-Dibromoethane	<2.4	ug/l	2.4	7.6	0.005	10		8260	cps	1/3/2000
1,2-Dichlorobenzene	<2	ug/l	2	6.4	60	10		8260	cps	1/3/2000
1,2-Dichloroethane	<1.9	ug/l	1.9	6	0.5	10		8260	cps	1/3/2000
1,2-Dichloropropane	<2.3	ug/l	2.3	7.3	0.5	10		8260	cps	1/3/2000
1,3,5-Trimethylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	1/3/2000
1,3-Dichlorobenzene	<1.9	ug/l	1.9	6	125	10		8260	cps	1/3/2000
1,3-Dichloropropane	<2.1	ug/l	2.1	6.7	ns	10		8260	cps	1/3/2000
1,4-Dichlorobenzene	<1.5	ug/l	1.5	4.8	15	10		8260	cps	1/3/2000
1,2-Dibromo-3-chloropropan	<5.9	ug/l	5.9	19	0.02	10		8260	cps	1/3/2000
2,2-Dichloropropane	<4	ug/l	4	13	ns	10		8260	cps	1/3/2000
2-Butanone (MEK)	<14	ug/l	14	44	90	10		8260	cps	1/3/2000
2-Chloroethyl Vinyl Ether	<2.9	ug/l	2.9	9.2	ns	10		8260	cps	1/3/2000
2-Chlorotoluene	<1.5	ug/l	1.5	4.8	ns	10		8260	cps	1/3/2000
4-Chlorotoluene	<2.5	ug/l	2.5	8	ns	10		8260	cps	1/3/2000
4-Methyl-2-Pentanone	<8.4	ug/l	8.4	27	50	10		8260	cps	1/3/2000
Acetone	<16	ug/l	16	49	200	10		8260	cps	1/3/2000
Benzene	<1.9	ug/l	1.9	6	0.5	10		8260	cps	1/3/2000
Bromobenzene	<1.9	ug/l	1.9	6	ns	10		8260	cps	1/3/2000
Bromochloromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	1/3/2000
Bromodichloromethane	<2.6	ug/l	2.6	8.3	0.06	10		8260	cps	1/3/2000
Bromoform	<4.7	ug/l	4.7	15	0.44	10		8260	cps	1/3/2000
Bromomethane	<2.1	ug/l	2.1	6.7	1	10		8260	cps	1/3/2000
Carbon tetrachloride	<2.2	ug/l	2.2	7	0.5	10		8260	cps	1/3/2000
Chlorobenzene	<2	ug/l	2	6.4	20	10		8260	cps	1/3/2000
Chloroethane	<12	ug/l	12	37	80	10		8260	cps	1/3/2000
Chloroform	<2.7	ug/l	2.7	8.6	0.6	10		8260	cps	1/3/2000
Chloromethane	<7.7	ug/l	7.7	24	0.3	10		8260	cps	1/3/2000
cis-1,2-Dichloroethene	62	ug/l	2	6.4	7	10		8260	cps	1/3/2000
cis-1,3-Dichloropropene	<2.4	ug/l	2.4	7.6	0.02	10		8260	cps	1/3/2000



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 2572 Oak St.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991079
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 28-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	1/3/2000
Dibromomethane	<3.5	ug/l	3.5	11	ns	10		8260	cps	1/3/2000
Dichlorodifluoromethane	<3.6	ug/l	3.6	11	200	10		8260	cps	1/3/2000
Ethylbenzene	<1.6	ug/l	1.6	5.1	140	10		8260	cps	1/3/2000
Hexachlorobutadiene	<2.2	ug/l	2.2	7	ns	10		8260	cps	1/3/2000
Isopropyl Ether	<3.2	ug/l	3.2	10	ns	10		8260	cps	1/3/2000
Isopropylbenzene	<1.6	ug/l	1.6	5.1	ns	10		8260	cps	1/3/2000
m&p-xylene	<3.6	ug/l	3.6	11	124	10		8260	cps	1/3/2000
Methyl-t-butyl ether	<2.1	ug/l	2.1	6.7	12	10		8260	cps	1/3/2000
Methylene chloride	<7.6	ug/l	7.6	24	0.5	10		8260	cps	1/3/2000
n-Butylbenzene	<2.3	ug/l	2.3	7.3	ns	10		8260	cps	1/3/2000
n-Propylbenzene	<2.5	ug/l	2.5	8	ns	10		8260	cps	1/3/2000
Naphthalene	<4.6	ug/l	4.6	15	8	10		8260	cps	1/3/2000
o-xylene	<1.8	ug/l	1.8	5.7	124	10		8260	cps	1/3/2000
p-Isopropyltoluene	<1.8	ug/l	1.8	5.7	ns	10		8260	cps	1/3/2000
sec-Butylbenzene	<3	ug/l	3	9.5	ns	10		8260	cps	1/3/2000
Styrene	<2.1	ug/l	2.1	6.7	10	10		8260	cps	1/3/2000
tert-Butylbenzene	<2	ug/l	2	6.4	ns	10		8260	cps	1/3/2000
Tetrachloroethene	6.8	ug/l	2.9	9.2	0.5	10	J	8260	cps	1/3/2000
Toluene	<3.3	ug/l	3.3	10	68.6	10		8260	cps	1/3/2000
trans-1,2-Dichloroethene	16	ug/l	1.6	5.1	20	10		8260	cps	1/3/2000
trans-1,3-Dichloropropene	<2	ug/l	2	6.4	0.02	10		8260	cps	1/3/2000
Trichloroethene	560	ug/l	1.6	5.1	0.5	10		8260	cps	1/3/2000
Trichlorofluoromethane	<3.4	ug/l	3.4	11	ns	10		8260	cps	1/3/2000
Vinyl chloride	2.2	ug/l	2.1	6.7	0.02	10	J	8260	cps	1/3/2000

Sample Number 18180 QC Prep Batch Number: 993110 Sample analyzed within 7 Day(s) from collection.
 Client ID 991227WA07P Sample Description: Collection: 12/27/99 Time: 10:10

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	1/3/2000
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	1/3/2000
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	1/3/2000
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	1/3/2000
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	1/3/2000
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	1/3/2000
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	1/3/2000
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	1/3/2000
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	1/3/2000
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	1/3/2000
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	1/3/2000
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	1/3/2000
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	1/3/2000
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	1/3/2000



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991079
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 28-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	1/3/2000
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	1/3/2000
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	1/3/2000
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	1/3/2000
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	1/3/2000
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	1/3/2000
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	1/3/2000
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	1/3/2000
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	1/3/2000
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	1/3/2000
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	1/3/2000
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	1/3/2000
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	1/3/2000
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	1/3/2000
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	1/3/2000
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	1/3/2000
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	1/3/2000
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	1/3/2000
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	1/3/2000
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	1/3/2000
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	1/3/2000
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	1/3/2000
Chloroform	0.32	ug/l	0.27	0.86	0.6	1	J	8260	cps	1/3/2000
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	1/3/2000
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	1/3/2000
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	1/3/2000
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	1/3/2000
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	1/3/2000
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	1/3/2000
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	1/3/2000
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	1/3/2000
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	1/3/2000
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	1/3/2000
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	1/3/2000
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	1/3/2000
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	1/3/2000
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	1/3/2000
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	1/3/2000
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	1/3/2000
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	1/3/2000
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	1/3/2000
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	1/3/2000
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	1/3/2000



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991079
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 28-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	1/3/2000
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	1/3/2000
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	1/3/2000
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	1/3/2000
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	1/3/2000
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	1/3/2000
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	1/3/2000
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	1/3/2000

Sample Number: 18181 QC Prep Batch Number: 993110 Sample analyzed within 7 Day(s) from collection
 Client ID: 991227WA09P Sample Description: Collection: 12/27/99 Time: 10:30

1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	1/3/2000
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73	40	1		8260	cps	1/3/2000
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92	0.02	1		8260	cps	1/3/2000
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	1/3/2000
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48	85	1		8260	cps	1/3/2000
1,1-Dichloroethene	<0.36	ug/l	0.36	1.1	0.7	1		8260	cps	1/3/2000
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	1/3/2000
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	1/3/2000
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	1/3/2000
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	1/3/2000
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	1/3/2000
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	1/3/2000
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	1/3/2000
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	1/3/2000
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	1/3/2000
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	1/3/2000
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	1/3/2000
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	1/3/2000
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	1/3/2000
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	1/3/2000
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	1/3/2000
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	1/3/2000
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	1/3/2000
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	1/3/2000
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	1/3/2000
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	1/3/2000
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	1/3/2000
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	1/3/2000
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	1/3/2000
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	1/3/2000
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	1/3/2000



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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991079
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 28-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	1/3/2000
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	1/3/2000
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	1/3/2000
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	1/3/2000
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	1/3/2000
Chloroform	0.45	ug/l	0.27	0.86	0.6	1	J	8260	cps	1/3/2000
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	1/3/2000
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	1/3/2000
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	1/3/2000
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	1/3/2000
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	1/3/2000
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	1/3/2000
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	1/3/2000
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	1/3/2000
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	1/3/2000
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	1/3/2000
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	1/3/2000
Methyl-t-butyl ether	<0.21	ug/l	0.21	0.67	12	1		8260	cps	1/3/2000
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	1/3/2000
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	1/3/2000
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	1/3/2000
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	1/3/2000
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	1/3/2000
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	1/3/2000
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	1/3/2000
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	1/3/2000
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	1/3/2000
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	1/3/2000
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	1/3/2000
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	1/3/2000
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	1/3/2000
Trichloroethene	0.3	ug/l	0.16	0.51	0.5	1	J	8260	cps	1/3/2000
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	1/3/2000
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	1/3/2000

Sample Number: 18182 QC Prep Batch Number: 993110 Sample analyzed within 7 Day(s) from collection

Client ID	Trip Blank	Sample Description	Collection:	Time:
1,1,1,2-Tetrachloroethane	<0.2	ug/l	0.2	0.64 ns 1 8260 cps 1/3/2000
1,1,1-Trichloroethane	<0.23	ug/l	0.23	0.73 40 1 8260 cps 1/3/2000
1,1,2,2-Tetrachloroethane	<0.29	ug/l	0.29	0.92 0.02 1 8260 cps 1/3/2000
1,1,2-Trichloroethane	<0.29	ug/l	0.29	0.92 0.5 1 8260 cps 1/3/2000
1,1-Dichloroethane	<0.15	ug/l	0.15	0.48 85 1 8260 cps 1/3/2000



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

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 991079
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 28-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	1/3/2000
1,1-Dichloropropene	<0.49	ug/l	0.49	1.6	ns	1		8260	cps	1/3/2000
1,2,3-Trichlorobenzene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	1/3/2000
1,2,3-Trichloropropane	<0.6	ug/l	0.6	1.9	ns	1		8260	cps	1/3/2000
1,2,4-Trichlorobenzene	<0.16	ug/l	0.16	0.51	14	1		8260	cps	1/3/2000
1,2,4-Trimethylbenzene	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	1/3/2000
1,2-Dibromoethane	<0.24	ug/l	0.24	0.76	0.005	1		8260	cps	1/3/2000
1,2-Dichlorobenzene	<0.2	ug/l	0.2	0.64	60	1		8260	cps	1/3/2000
1,2-Dichloroethane	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	1/3/2000
1,2-Dichloropropane	<0.23	ug/l	0.23	0.73	0.5	1		8260	cps	1/3/2000
1,3,5-Trimethylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	1/3/2000
1,3-Dichlorobenzene	<0.19	ug/l	0.19	0.6	125	1		8260	cps	1/3/2000
1,3-Dichloropropane	<0.21	ug/l	0.21	0.67	ns	1		8260	cps	1/3/2000
1,4-Dichlorobenzene	<0.15	ug/l	0.15	0.48	15	1		8260	cps	1/3/2000
1,2-Dibromo-3-chloropropan	<0.59	ug/l	0.59	1.9	0.02	1		8260	cps	1/3/2000
2,2-Dichloropropane	<0.4	ug/l	0.4	1.3	ns	1		8260	cps	1/3/2000
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	90	1		8260	cps	1/3/2000
2-Chloroethyl Vinyl Ether	<0.29	ug/l	0.29	0.92	ns	1		8260	cps	1/3/2000
2-Chlorotoluene	<0.15	ug/l	0.15	0.48	ns	1		8260	cps	1/3/2000
4-Chlorotoluene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	1/3/2000
4-Methyl-2-Pentanone	<0.84	ug/l	0.84	2.7	50	1		8260	cps	1/3/2000
Acetone	<1.6	ug/l	1.6	4.9	200	1		8260	cps	1/3/2000
Benzene	<0.19	ug/l	0.19	0.6	0.5	1		8260	cps	1/3/2000
Bromobenzene	<0.19	ug/l	0.19	0.6	ns	1		8260	cps	1/3/2000
Bromochloromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	1/3/2000
Bromodichloromethane	<0.26	ug/l	0.26	0.83	0.06	1		8260	cps	1/3/2000
Bromoform	<0.47	ug/l	0.47	1.5	0.44	1		8260	cps	1/3/2000
Bromomethane	<0.21	ug/l	0.21	0.67	1	1		8260	cps	1/3/2000
Carbon tetrachloride	<0.22	ug/l	0.22	0.7	0.5	1		8260	cps	1/3/2000
Chlorobenzene	<0.2	ug/l	0.2	0.64	20	1		8260	cps	1/3/2000
Chloroethane	<1.2	ug/l	1.2	3.7	80	1		8260	cps	1/3/2000
Chloroform	<0.27	ug/l	0.27	0.86	0.6	1		8260	cps	1/3/2000
Chloromethane	<0.77	ug/l	0.77	2.4	0.3	1		8260	cps	1/3/2000
cis-1,2-Dichloroethene	<0.2	ug/l	0.2	0.64	7	1		8260	cps	1/3/2000
cis-1,3-Dichloropropene	<0.24	ug/l	0.24	0.76	0.02	1		8260	cps	1/3/2000
Dibromochloromethane	<0.21	ug/l	0.21	0.67	6	1		8260	cps	1/3/2000
Dibromomethane	<0.35	ug/l	0.35	1.1	ns	1		8260	cps	1/3/2000
Dichlorodifluoromethane	<0.36	ug/l	0.36	1.1	200	1		8260	cps	1/3/2000
Ethylbenzene	<0.16	ug/l	0.16	0.51	140	1		8260	cps	1/3/2000
Hexachlorobutadiene	<0.22	ug/l	0.22	0.7	ns	1		8260	cps	1/3/2000
Isopropyl Ether	<0.32	ug/l	0.32	1	ns	1		8260	cps	1/3/2000
Isopropylbenzene	<0.16	ug/l	0.16	0.51	ns	1		8260	cps	1/3/2000
m&p-xylene	<0.36	ug/l	0.36	1.1	124	1		8260	cps	1/3/2000



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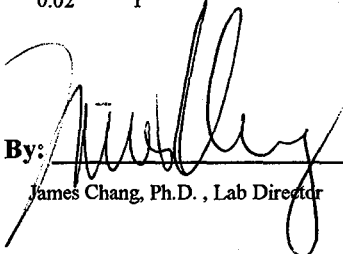
ORGANIC REPORT

WDNR# 241340550

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

BATCH NUMBER: 991079
 DATE REPORTED: 04-Jan-00
 DATE RECEIVED: 28-Dec-99
 SAMPLE TEMP (C): Rec On Ice
 PROJECT ID: Weekly Sampling De
 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	1/3/2000
Methylene chloride	<0.76	ug/l	0.76	2.4	0.5	1		8260	cps	1/3/2000
n-Butylbenzene	<0.23	ug/l	0.23	0.73	ns	1		8260	cps	1/3/2000
n-Propylbenzene	<0.25	ug/l	0.25	0.8	ns	1		8260	cps	1/3/2000
Naphthalene	<0.46	ug/l	0.46	1.5	8	1		8260	cps	1/3/2000
o-xylene	<0.18	ug/l	0.18	0.57	124	1		8260	cps	1/3/2000
p-Isopropyltoluene	<0.18	ug/l	0.18	0.57	ns	1		8260	cps	1/3/2000
sec-Butylbenzene	<0.3	ug/l	0.3	0.95	ns	1		8260	cps	1/3/2000
Styrene	<0.21	ug/l	0.21	0.67	10	1		8260	cps	1/3/2000
tert-Butylbenzene	<0.2	ug/l	0.2	0.64	ns	1		8260	cps	1/3/2000
Tetrachloroethene	<0.29	ug/l	0.29	0.92	0.5	1		8260	cps	1/3/2000
Toluene	<0.33	ug/l	0.33	1	68.6	1		8260	cps	1/3/2000
trans-1,2-Dichloroethene	<0.16	ug/l	0.16	0.51	20	1		8260	cps	1/3/2000
trans-1,3-Dichloropropene	<0.2	ug/l	0.2	0.64	0.02	1		8260	cps	1/3/2000
Trichloroethene	<0.16	ug/l	0.16	0.51	0.5	1		8260	cps	1/3/2000
Trichlorofluoromethane	<0.34	ug/l	0.34	1.1	ns	1		8260	cps	1/3/2000
Vinyl chloride	<0.21	ug/l	0.21	0.67	0.02	1		8260	cps	1/3/2000

Approved By:  Date: 1/4/2000
 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.