JULY 2002

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 DACW37-01-C-0004

Prepared by:

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8222 West Calumet Road
Milwaukee, WI 53223

August 15, 2002

1.0 Introduction

This report summarizes the monthly effluent monitoring results for the Oconomowoc Electroplating Groundwater Treatment Plant (OEGTP) for July, 2002. The OEGTP is located at the site of the former Oconomowoc Electroplating Company, in Ashippun, WI.

Laboratory results of effluent sampling can be found in the Discharge Monitoring Report Form, sent under separate cover. The effluent sampling was conducted by Dean Groleau 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 (651) 290-5429, Fax (651) 290-5258. 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, or ogtp@netwurx.net. 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 iron bacteria, suspended solids, and volatile organic compounds (VOC's). The treated water is then transferred to a groundwater effluent gallery, located south of Elm Street, near Davey Creek.

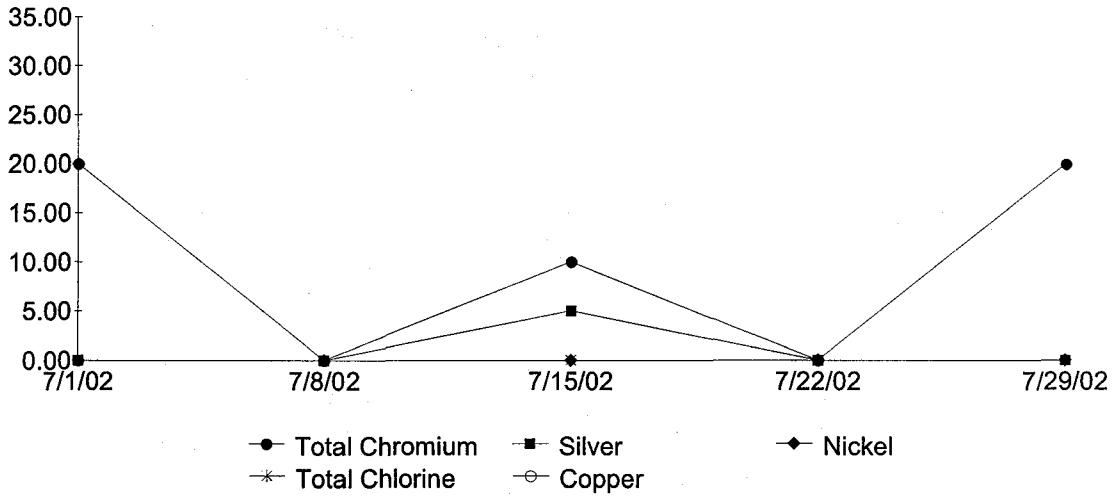
1.3 Effluent Monitoring

Weekly monitoring was conducted on July 1, 8, 15, 22, and 29. The weekly samples for July were tested by APL, Inc. The results of the effluent monitoring tests for the samples taken in July showed exceedences of Nickel and Total Chromium from the WDNR effluent discharge permit.

1.4 Monitoring Results

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

Chart 1 - 5 Important Indicator Parameters



2.0 Plant Permit Exceedences

The results of the July 1 weekly sampling round showed exceedences in Nickel and Total Chromium of the limits listed in the Requirements of the *Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96)*. Paul Kozol, Project Manager from the WDNR, was notified about the exceedences of Nickel and Total Chromium from the July 1 sampling. The July 1 Nickel result was 30 ug/l and the permit limit is 20 ug/l. The July 1 Total Chromium result was 30 ug/l and the permit limit is 10 ug/l. The result of the re-test for Nickel was 20 ug/l and for Total Chromium was 20 ug/l. Mr. Kozol allowed the treatment plant to continue operating based on initiating the Sodium Bisulfite System and that the dosage had been cut in half. This was the first round of sampling since the Sodium Bisulfite dosage had been cut in half. Mr. Kozol stated that if the analyses show that the exceedences are continuing, then more drastic measures will need to be taken. The operators are in the process of changing the location of the Sodium Bisulfite injection from the Tertiary Filtration Holding Tank (TFT-601) to the Effluent Holding Tank (EHT-700) at the request of Lindsey Lien, USACE.

Paul Kozol, Project Manager from the WDNR, was notified about the exceedence of Nickel from the July 15 sampling. The July 15 result of Nickel was 30 ug/l. The permit limit for Nickel is 20 ug/l. The July 15 sample was re-tested for Nickel and the result of the re-test for Nickel was Less Than the Level of Detection (<11 ug/l).

Paul Kozol, Project Manager from the WDNR, was notified about the exceedence of Total Chromium from the July 29 sampling. The July 29 result of Total Chromium was 20 ug/l. The permit limit for Total Chromium is 10 ug/l. The July 15 sample was re-tested for Total Chromium and the result of the re-test for Total Chromium was 28 ug/l. Mr. Kozol allowed the treatment plant to continue operating based on both results fell between the lab's Level of

Detection (8 ug/l) and Level of Quantitation (30 ug/l). Mr. Kozol stated that if the analyses show that the exceedences are continuing, then more drastic measures will need to be taken.

3.0 Treatment Plant Shut Downs

The Treatment Plant was shut down two times for a total of 5.72 hours in July, 2002. The shut downs were due to Low Effluent pH and to Low Equalization Tank Level. Table 1 shows the summary of the plant down times for the month of July, 2002.

Table 1 - Plant Down Time Summary

Date(s)	Number Hours Shut Down	Reason
7/11/02	1.72	Shut Down Due to Low Effluent pH
7/23/02	4	Shut Down Due to Low EQT-100 Level
TOTAL	**5.72**	

3.1 Shut Down Due to Low Effluent pH

On July 11, an acid cleansing of the Extraction Wells' (EW-1/2/3/4/5) piping was conducted to increase flow to the Equalization Tank (EQT-100) and to possibly unclog EW-4's piping that was caused by RMT Env., Inc. from Madison. After the acid cleansing, the acid was pumped to EQT-100 and the operators used Soda Ash to neutralize it. The pH through the plant was monitored until the end of the work. After hours, the treatment plant shut down automatically at 1625 hours due to low effluent pH (<6.0). The treatment plant kept shutting down and restarting because of the effluent pH changing due to the water temperature rising due to the shut down. At 1825 hours, the treatment plant restarted automatically and sustained a pH >6.0. Total down time was 1.75 hours. The USACE, WDNR, and APL, Inc. were notified of the shut down.

3.2 Shut Down Due to Low EQT-100 Level

On July 23, the treatment plant was discovered shut down upon the arrival of the operator for the work day. After an initial inspection, the cause was determined to be due to a low Equalization

Tank (EQT-100) level. The treatment plant shuts down automatically whenever the level in EQT-100 drops <25%. On July 22, the operators had shut down the Extraction Wells (EW-1/2/3/4/5) and prepared for RMT, Env. to work on EW-4. The operators had under compensated for the treatment plant's flow while the EW's were shut down. The treatment plant had shut down at 0210 hours. At 0500 hours, the EW's were restarted and the Effluent Holding Tank (EHT-700), Diffused Air Stripper (DAS-500), Tertiary Filtration Holding Tank (TFT-601), Press Filtrate Holding Tank (PFT-840), and Clarifier (C-400) were dumped into the floor trench to speed up the filling of EQT-100. EQT-100 must fill to >55% before the treatment plant can restart automatically. At 0610 hours, the treatment plant restarted automatically. Total downtime was 4 hours. The USACE, WDNR, and APL, Inc. were notified of the shut down.

4.0 Sludge Press Operations

The Sludge Filter Press (FP-800) was not operated during the month of July, 2002. There were no filter press loads of dewatered sludge in the hopper at the end of July, 2002.

5.0 Summary

Groundwater Treatment Plant effluent monitoring was conducted on July 1, 8, 15, 22, and 29 of 2002. The laboratory results of these samples showed that there were exceedences in Nickel and Total Chromium from the limits listed in the requirements of the *Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96)*. See Chart 1, Section 1.4 for *Important Indicator Parameters*.

During the month of July, 2002, the plant was shut down two times for a total of 5.72 hours. See Table 1, Section 3.0 for shut down times. All equipment operation and maintenance related issues are detailed in a separate report, entitled "*Monthly Operation and Maintenance Report for the Oconomowoc Electroplating Groundwater Treatment Facility*". That report will be submitted by August 15, 2002.

The Sludge Filter Press (FP-800) was not operated during the month of July, 2002. There were no filter press loads of dewatered sludge in the hopper at the end of July, 2002.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-01-02	
Parameter	Influent	After FT-311	After Air Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	6.9	7.7	N/A	N/A	6.9	Monitor	
TSS	<1	NT	NT	NT	<1	Monitor	mg/l
Arsenic	<5.6	NT	NT	NT	<5.6	5	
Barium	110	NT	NT	NT	100	400	
Cadmium	<0.4	NT	NT	NT	<0.4	0.5	
Cadmium Total Recoverable	<0.4	NT	NT	NT	<0.4	Monitor	
Chromium +6	<4.2	NT	NT	NT	<4.2	Monitor	
Chromium Total	<8	NT	NT	NT	30/20	10	**
Copper	<6	NT	NT	NT	<6	Monitor	
Iron	1000	NT	NT	NT	<81	Monitor	
Lead	<1.5	NT	NT	NT	<1.5	1.5	
Manganese	160	NT	NT	NT	180	Monitor	
Mercury	<0.2	NT	NT	NT	<0.2	0.2	
Nickel	20	NT	NT	NT	30/20	20	**
Selenium	<4.8	NT	NT	NT	<4.8	10	
Silver	6	NT	NT	NT	10/<4	10	
Thallium	<1.3	NT	NT	NT	<1.3	0.4	
Zinc	20	NT	NT	NT	50	Monitor	
Cyanide	7	NT	NT	NT	<6	40	
Cyanide Amenable	<6	NT	NT	NT	<6	Monitor	
1,1-Dichloroethane	9.7	NT	<0.32/<0.32	NT	<0.32	85	
1,2-Dichloroethane	<1.8	NT	<0.35/<0.35	NT	<0.35	0.5	
1,1-Dichloroethene	<1.7	NT	<0.34/<0.34	NT	<0.34	0.7	
1,2-Dichloroethene Cis	22	NT	<0.27/<0.27	NT	<0.27	7	
1,2-Dichloroethene Trans	8	NT	<0.25/<0.25	NT	<0.25	20	
Ethylbenzene	<1.3	NT	<0.25/<0.25	NT	<0.25	140	
Methylene Chloride	<1.5	NT	<0.3/<0.3	NT	<0.3	0.5	
Tetrachloroethene	1.6	NT	<0.31/<0.31	NT	<0.31	0.5	
Toluene	<1.5	NT	<0.29/<0.29	NT	<0.29	68	
1,1,1-Trichloroethane	58	NT	<0.31/<0.31	NT	<0.31	40	
1,1,2-Trichloroethane	<2.2	NT	<0.44/<0.44	NT	<0.44	0.5	
TCE	237	NT	1.4/1.9	NT	<0.34	0.5	
Vinyl Chloride	1.1	NT	<0.2/<0.2	NT	<0.2	0.2	
Xylene Total	<2.7	NT	<0.53/<0.53	NT	<0.53	124	
Chlorine, Total	>171	NT	NT	NT	<40	38	*
COD	<5.7	NT	NT	NT	<5.7	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	<0.1	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	0.86	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	0.27	Monitor	mg/l

NT = Not Tested.
N/A = Not Applicable at this time.
ug/l = Micrograms per Liter.
mg/l = Milligrams per Liter.

* Chlorine, Total = Weekly average.
** Exceedences--requested retesting to verify results. Second number.
Sample Point "After Air Stripper" was duplicated (second result).

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-08-02	
Parameter	Influent	After FT-311	After Air Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.1	7.5	N/A	N/A	7.9	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	<5.6	NT	NT	NT	<5.6	5	
Barium	100	NT	NT	NT	100	400	
Cadmium	<0.4	NT	NT	NT	<0.4	0.5	
Cadmium Total Recoverable	<0.4	NT	NT	NT	<0.4	Monitor	
Chromium +6	<4.2	NT	NT	NT	<4.2	Monitor	
Chromium Total	<8	NT	NT	NT	<8	10	
Copper	<6	NT	NT	NT	<6	Monitor	
Iron	1000	NT	NT	NT	<81	Monitor	
Lead	<1.5	NT	NT	NT	<1.5	1.5	
Manganese	140	NT	NT	NT	20	Monitor	
Mercury	0.3	NT	NT	NT	<0.2	0.2	
Nickel	<11	NT	NT	NT	<11	20	
Selenium	<4.8	NT	NT	NT	<4.8	10	
Silver	7	NT	NT	NT	<4	10	
Thallium	<1.3	NT	NT	NT	<1.3	0.4	
Zinc	<14	NT	NT	NT	<14	Monitor	
Cyanide	10	NT	NT	NT	<6	40	
Cyanide Amenable	<6	NT	NT	NT	<6	Monitor	
1,1-Dichloroethane	7.6	NT	<0.32	NT	<0.32	85	
1,2-Dichloroethane	<1.8	NT	<0.35	NT	<0.35	0.5	
1,1-Dichloroethene	<1.7	NT	<0.34	NT	<0.34	0.7	
1,2-Dichloroethene Cis	20	NT	<0.27	NT	<0.27	7	
1,2-Dichloroethene Trans	5.9	NT	<0.25	NT	<0.25	20	
Ethylbenzene	<1.3	NT	<0.25	NT	<0.25	140	
Methylene Chloride	<1.5	NT	<0.3	NT	<0.3	0.5	
Tetrachloroethene	1.7	NT	<0.31	NT	<0.31	0.5	
Toluene	<1.5	NT	<0.29	NT	<0.29	68	
1,1,1-Trichloroethane	57	NT	<0.31	NT	<0.31	40	
1,1,2-Trichloroethane	<2.2	NT	<0.44	NT	<0.44	0.5	
TCE	225	NT	1.5	NT	<0.34	0.5	
Vinyl Chloride	1.1	NT	<0.2	NT	<0.2	0.2	
Xylene Total	<2.7	NT	<0.53	NT	<0.53	124	
Chlorine, Total	>171	NT	NT	NT	<40	38	*
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

NT = Not Tested.
N/A = Not Applicable at this time.
ug/l = Micrograms per Liter.
mg/l = Milligrams per Liter.

* Chlorine, Total = Weekly average.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-15-02	
Parameter	Influent	After FT-311	After Air Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7.2	7.5	N/A	N/A	7.6	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	<5.6	NT	NT	NT	<5.6	5	
Barium	100	NT	NT	NT	90	400	
Cadmium	<0.4	NT	NT	NT	<0.4	0.5	
Cadmium Total Recoverable	<0.4	NT	NT	NT	<0.4	Monitor	
Chromium +6	<4.2	NT	NT	NT	<4.2	Monitor	
Chromium Total	<8	NT	NT	NT	10	10	
Copper	<6	NT	NT	NT	50	Monitor	
Iron	980	NT	NT	NT	<81	Monitor	
Lead	<1.5	NT	NT	NT	<1.5	1.5	
Manganese	140	NT	NT	NT	40	Monitor	
Mercury	<0.2	NT	NT	NT	<0.2	0.2	
Nickel	<11	NT	NT	NT	30/<11	20	**
Selenium	<4.8	NT	NT	NT	<4.8	10	
Silver	<4	NT	NT	NT	5	10	
Thallium	<1.3	NT	NT	NT	<1.3	0.4	
Zinc	<14	NT	NT	NT	50	Monitor	
Cyanide	10	NT	NT	NT	<6	40	
Cyanide Amenable	<6	NT	NT	NT	<6	Monitor	
1,1-Dichloroethane	9.8	NT	<0.32	NT	<0.32	85	
1,2-Dichloroethane	<1.8	NT	<0.35	NT	<0.35	0.5	
1,1-Dichloroethene	2.3	NT	<0.34	NT	<0.34	0.7	
1,2-Dichloroethene Cis	25	NT	<0.27	NT	<0.27	7	
1,2-Dichloroethene Trans	6.3	NT	<0.25	NT	<0.25	20	
Ethylbenzene	<1.3	NT	<0.25	NT	<0.25	140	
Methylene Chloride	<1.5	NT	<0.3	NT	<0.3	0.5	
Tetrachloroethene	2.1	NT	<0.31	NT	<0.31	0.5	
Toluene	<1.5	NT	<0.29	NT	<0.29	68	
1,1,1-Trichloroethane	69	NT	<0.31	NT	<0.31	40	
1,1,2-Trichloroethane	<2.2	NT	<0.44	NT	<0.44	0.5	
TCE	270	NT	1.8	NT	<0.34	0.5	
Vinyl Chloride	1.4	NT	<0.2	NT	<0.2	0.2	
Xylene Total	<2.7	NT	<0.53	NT	<0.53	124	
Chlorine, Total	>183	NT	NT	NT	<40	38	*
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

NT = Not Tested.
N/A = Not Applicable at this time.
ug/l = Micrograms per Liter.
mg/l = Milligrams per Liter.

* Chlorine, Total = Weekly average.
** Exceedence--requested retesting to verify results. Second number.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-22-02	
Parameter	Influent	After FT-311	After Air Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	7	7.4	N/A	N/A	7.9	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	<5.6	NT	NT	NT	<5.6	5	
Barium	120	NT	NT	NT	100	400	
Cadmium	<0.4	NT	NT	NT	<0.4	0.5	
Cadmium Total Recoverable	<0.4	NT	NT	NT	<0.4	Monitor	
Chromium +6	<4.2	NT	NT	NT	<4.2	Monitor	
Chromium Total	<8	NT	NT	NT	<8	10	
Copper	<6	NT	NT	NT	<6	Monitor	
Iron	1500	NT	NT	NT	230	Monitor	
Lead	<1.5	NT	NT	NT	<1.5	1.5	
Manganese	210	NT	NT	NT	20	Monitor	
Mercury	<0.2	NT	NT	NT	<0.2	0.2	
Nickel	10	NT	NT	NT	<11	20	
Selenium	<4.8	NT	NT	NT	<4.8	10	
Silver	<4	NT	NT	NT	<4	10	
Thallium	1.6	NT	NT	NT	<1.3	0.4	
Zinc	20	NT	NT	NT	20	Monitor	
Cyanide	30	NT	NT	NT	6	40	
Cyanide Amenable	<6	NT	NT	NT	<6	Monitor	
1,1-Dichloroethane	9.9	NT	<0.32	NT	<0.32	85	
1,2-Dichloroethane	<1.8	NT	<0.35	NT	<0.35	0.5	
1,1-Dichloroethene	<1.7	NT	<0.34	NT	<0.34	0.7	
1,2-Dichloroethene Cis	27	NT	0.27	NT	<0.27	7	
1,2-Dichloroethene Trans	9.8	NT	<0.25	NT	<0.25	20	
Ethylbenzene	<1.3	NT	<0.25	NT	<0.25	140	
Methylene Chloride	<1.5	NT	<0.3	NT	<0.3	0.5	
Tetrachloroethene	1.8	NT	<0.31	NT	<0.31	0.5	
Toluene	<1.5	NT	<0.29	NT	<0.29	68	
1,1,1-Trichloroethane	57	NT	<0.31	NT	<0.31	40	
1,1,2-Trichloroethane	<2.2	NT	<0.44	NT	<0.44	0.5	
TCE	245	NT	1.1	NT	<0.34	0.5	
Vinyl Chloride	1.4	NT	<0.2	NT	<0.2	0.2	
Xylene Total	<2.7	NT	<0.53	NT	<0.53	124	
Chlorine, Total	>186	NT	NT	NT	<40	38	*
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

NT = Not Tested.
N/A = Not Applicable at this time.
ug/l = Micrograms per Liter.
mg/l = Milligrams per Liter.

* Chlorine, Total = Weekly average.

OCONOMOWOC GROUNDWATER TREATMENT PLANT							
Weekly Sampling Results					Date:	7-29-02	
Parameter	Influent	After FT-311	After Air Stripper	After Carbon Filters	Effluent	WDNR Site Permit ug/l	
pH	6.9	7.3	N/A	N/A	7.9	Monitor	
TSS	NT	NT	NT	NT	NT	Monitor	mg/l
Arsenic	<5.6	NT	NT	NT	<5.6	5	
Barium	90	NT	NT	NT	90	400	
Cadmium	<0.4	NT	NT	NT	<0.4	0.5	
Cadmium Total Recoverable	<0.4	NT	NT	NT	<0.4	Monitor	
Chromium +6	<4.2	NT	NT	NT	<4.2	Monitor	
Chromium Total	10	NT	NT	NT	20/28	10	**
Copper	320	NT	NT	NT	400	Monitor	
Iron	940	NT	NT	NT	310	Monitor	
Lead	<1.5	NT	NT	NT	<1.5	1.5	
Manganese	100	NT	NT	NT	20	Monitor	
Mercury	<0.2	NT	NT	NT	<0.2	0.2	
Nickel	<11	NT	NT	NT	<11	20	
Selenium	<4.8	NT	NT	NT	<4.8	10	
Silver	5	NT	NT	NT	4	10	
Thallium	<1.3	NT	NT	NT	<1.3	0.4	
Zinc	100	NT	NT	NT	120	Monitor	
Cyanide	10	NT	NT	NT	20	40	
Cyanide Amenable	<6	NT	NT	NT	<6	Monitor	
1,1-Dichloroethane	6.4	NT	<0.32	NT	<0.32	85	
1,2-Dichloroethane	<1.8	NT	<0.35	NT	<0.35	0.5	
1,1-Dichloroethene	7.9	NT	<0.34	NT	<0.34	0.7	
1,2-Dichloroethene Cis	15	NT	0.46	NT	<0.27	7	
1,2-Dichloroethene Trans	3.9	NT	<0.25	NT	<0.25	20	
Ethylbenzene	<1.3	NT	<0.25	NT	<0.25	140	
Methylene Chloride	<1.5	NT	<0.3	NT	<0.3	0.5	
Tetrachloroethene	<1.6	NT	<0.31	NT	<0.31	0.5	
Toluene	<1.5	NT	<0.29	NT	<0.29	68	
1,1,1-Trichloroethane	38	NT	<0.31	NT	<0.31	40	
1,1,2-Trichloroethane	<2.2	NT	<0.44	NT	<0.44	0.5	
TCE	165	NT	1.8	NT	<0.34	0.5	
Vinyl Chloride	1.1	NT	0.28	NT	<0.2	0.2	
Xylene Total	<2.7	NT	<0.53	NT	<0.53	124	
Chlorine, Total	>200	NT	NT	NT	<40	38	*
COD	NT	NT	NT	NT	NT	Monitor	mg/l
Phosphorus Total	NT	NT	NT	NT	NT	Monitor	mg/l
Nitrate + Nitrite	NT	NT	NT	NT	NT	Monitor	mg/l
Ammonia Nitrogen	NT	NT	NT	NT	NT	Monitor	mg/l

NT = Not Tested.
N/A = Not Applicable at this time.
ug/l = Micrograms per Liter.
mg/l = Milligrams per Liter.

* Chlorine, Total = Weekly average.
** Exceedence--requested retesting to verify results. Second number.

FLOW FROM EXTRACTION WELLS

YEAR: 2002 MONTH: JULY DAY	FE-100 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	1,324,170.00	34,297.00	0.034	
2	1,358,467.00	35,123.00	0.035	
3	1,393,590.00	22,741.00	0.023	
4	1,416,331.00	38,349.00	0.038	
5	1,454,680.00	29,785.00	0.030	
6	1,484,465.00	32,007.00	0.032	
7	1,516,472.00	39,802.00	0.040	
8	1,556,274.00	31,923.00	0.032	
9	1,588,197.00	31,039.00	0.031	SHUT DOWN
10	1,619,236.00	27,715.00	0.028	SHUT DOWN
11	1,646,951.00	34,162.00	0.034	SHUT DOWN
12	1,681,113.00	28,313.00	0.028	
13	1,709,426.00	35,028.00	0.035	
14	1,744,454.00	44,604.00	0.045	
15	1,789,058.00	38,183.00	0.038	
16	1,827,241.00	34,967.00	0.035	
17	1,862,208.00	35,258.00	0.035	
18	1,897,466.00	27,290.00	0.027	
19	1,924,756.00	32,457.00	0.032	
20	1,957,213.00	35,658.00	0.036	
21	1,992,871.00	44,423.00	0.044	
22	2,037,294.00	12,240.00	0.012	SHUT DOWN
23	2,049,534.00	34,611.00	0.035	SHUT DOWN
24	2,084,145.00	35,418.00	0.035	
25	2,119,563.00	34,067.00	0.034	
26	2,153,630.00	27,805.00	0.028	
27	2,181,435.00	34,616.00	0.035	
28	2,216,051.00	43,590.00	0.044	
29	2,259,641.00	36,893.00	0.037	
30	2,296,534.00	32,479.00	0.032	
31	2,329,013.00	34,938.00	0.035	
August 01	2,363,951.00			
		TOTAL	1.039	
		AVERAGE	0.034	

FLOW FROM EQT-100

YEAR: 2002				
MONTH: JULY DAY	FE-112 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	3,481,530.00	39,289.00	0.039	
2	3,520,819.00	42,935.00	0.043	
3	3,563,754.00	32,194.00	0.032	
4	3,595,948.00	43,124.00	0.043	
5	3,639,072.00	33,608.00	0.034	
6	3,672,680.00	40,395.00	0.040	
7	3,713,075.00	47,417.00	0.047	
8	3,760,492.00	39,882.00	0.040	
9	3,800,374.00	38,571.00	0.039	
10	3,838,945.00	37,276.00	0.037	
11	3,876,221.00	34,586.00	0.035	SHUT DOWN
12	3,910,807.00	33,386.00	0.033	
13	3,944,203.00	43,326.00	0.043	
14	3,987,529.00	50,173.00	0.050	
15	4,037,702.00	43,614.00	0.044	
16	4,081,316.00	40,289.00	0.040	
17	4,121,605.00	41,981.00	0.042	
18	4,163,586.00	33,865.00	0.034	
19	4,197,451.00	37,751.00	0.038	
20	4,235,202.00	40,732.00	0.041	
21	4,275,934.00	49,250.00	0.049	
22	4,325,184.00	32,871.00	0.033	
23	4,358,055.00	41,307.00	0.041	SHUT DOWN
24	4,399,362.00	44,151.00	0.044	
25	4,443,513.00	42,045.00	0.042	
26	4,485,558.00	33,698.00	0.034	
27	4,519,256.00	39,690.00	0.040	
28	4,558,946.00	45,617.00	0.046	
29	4,604,563.00	40,720.00	0.041	
30	4,645,283.00	38,398.00	0.038	
31	4,683,681.00	43,614.00	0.044	
August 01	4,727,295.00			
		TOTAL	1.246	
		AVERAGE	0.040	

FLOW FROM EXTRACTION WELLS

YEAR: 2002				
MONTH: JULY DAY	FIT-100 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	6,619,765.10	32,976.00	0.033	
2	6,652,741.10	36,020.00	0.036	
3	6,688,761.10	22,426.80	0.022	
4	6,711,187.90	38,650.80	0.039	
5	6,749,838.70	28,999.10	0.029	
6	6,778,837.80	33,112.50	0.033	
7	6,811,950.30	41,137.80	0.041	
8	6,853,088.10	31,459.00	0.031	
9	6,884,547.10	34,688.90	0.035	SHUT DOWN
10	6,919,236.00	23,727.10	0.024	SHUT DOWN
11	6,942,963.10	34,663.00	0.035	SHUT DOWN
12	6,977,626.10	26,519.00	0.027	
13	7,004,145.10	35,708.50	0.036	
14	7,039,853.60	45,450.50	0.045	
15	7,085,304.10	38,177.00	0.038	
16	7,123,481.10	35,076.00	0.035	
17	7,158,557.10	35,776.00	0.036	
18	7,194,333.10	27,040.30	0.027	
19	7,221,373.40	32,742.80	0.033	
20	7,254,116.20	35,328.60	0.035	
21	7,289,444.80	44,642.30	0.045	
22	7,334,087.10	12,240.00	0.012	SHUT DOWN
23	7,346,327.10	36,010.00	0.036	SHUT DOWN
24	7,382,337.10	35,500.00	0.036	
25	7,417,837.10	33,679.00	0.034	
26	7,451,516.10	25,686.20	0.026	
27	7,477,202.30	36,289.50	0.036	
28	7,513,491.80	43,520.30	0.044	
29	7,557,012.10	36,958.00	0.037	
30	7,593,970.10	32,585.00	0.033	
31	7,626,555.10	35,080.00	0.035	
August 01	7,661,635.10			
		TOTAL	1.044	
		AVERAGE	0.034	

FLOW FROM EQT-100

YEAR: 2002				
MONTH: JULY DAY	FIT-112 FLOW TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	3,783,673.10	37,817.00	0.038	
2	3,821,490.10	44,050.00	0.044	
3	3,865,540.10	29,791.40	0.030	
4	3,895,331.50	45,457.80	0.045	
5	3,940,789.30	32,464.30	0.032	
6	3,973,253.60	41,837.20	0.042	
7	4,015,090.80	49,007.30	0.049	
8	4,064,098.10	39,332.00	0.039	
9	4,103,430.10	37,792.00	0.038	
10	4,141,222.10	37,547.00	0.038	
11	4,178,769.10	35,675.00	0.036	SHUT DOWN
12	4,214,444.10	30,121.90	0.030	
13	4,244,566.00	45,146.60	0.045	
14	4,289,712.60	51,165.50	0.051	
15	4,340,878.10	43,677.00	0.044	
16	4,384,555.10	40,336.00	0.040	
17	4,424,891.10	42,589.00	0.043	
18	4,467,480.10	33,553.10	0.034	
19	4,501,033.20	37,885.40	0.038	
20	4,538,918.60	40,305.20	0.040	
21	4,579,223.80	49,655.30	0.050	
22	4,628,879.10	32,836.00	0.033	
23	4,661,715.10	43,150.00	0.043	SHUT DOWN
24	4,704,865.10	44,155.00	0.044	
25	4,749,020.10	41,557.00	0.042	
26	4,790,577.10	31,090.10	0.031	
27	4,821,667.20	41,570.60	0.042	
28	4,863,237.80	45,488.30	0.045	
29	4,908,726.10	40,771.00	0.041	
30	4,949,497.10	38,503.00	0.039	
31	4,988,000.10	43,717.00	0.044	
August 01	5,031,717.10			
		TOTAL	1.250	
		AVERAGE	0.040	

EFFLUENT FLOW FROM PLANT

YEAR: 2002 MONTH: JULY DAY	NPDES STATION TOTALIZER	TOTAL DAY'S FLOW (GAL.)	DAILY FLOW MGD	
1	5,030,295.00	32,632.00	0.033	
2	5,062,927.00	36,165.00	0.036	
3	5,099,092.00	29,346.00	0.029	
4	5,128,438.00	35,487.00	0.035	
5	5,163,925.00	28,566.00	0.029	
6	5,192,491.00	38,563.00	0.039	
7	5,231,054.00	38,317.00	0.038	
8	5,269,371.00	35,654.00	0.036	
9	5,305,025.00	32,071.00	0.032	
10	5,337,096.00	33,328.00	0.033	
11	5,370,424.00	27,559.00	0.028	SHUT DOWN
12	5,397,983.00	30,721.00	0.031	
13	5,428,704.00	40,267.00	0.040	
14	5,468,971.00	41,256.00	0.041	
15	5,510,227.00	39,076.00	0.039	
16	5,549,303.00	33,447.00	0.033	
17	5,582,750.00	38,502.00	0.039	
18	5,621,252.00	29,157.00	0.029	
19	5,650,409.00	33,411.00	0.033	
20	5,683,820.00	36,486.00	0.036	
21	5,720,306.00	39,504.00	0.040	
22	5,759,810.00	25,339.00	0.025	
23	5,785,149.00	33,533.00	0.034	SHUT DOWN
24	5,818,682.00	40,288.00	0.040	
25	5,858,970.00	37,931.00	0.038	
26	5,896,901.00	33,094.00	0.033	
27	5,929,995.00	39,200.00	0.039	
28	5,969,195.00	38,134.00	0.038	
29	6,007,329.00	37,342.00	0.037	
30	6,044,671.00	34,738.00	0.035	
31	6,079,409.00	42,184.00	0.042	
August 01	6,121,593.00			
		TOTAL	1.090	
		AVERAGE	0.035	

MONITOR WELL DEPTHS

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS			WATER LEVEL		FEET	
DATE	MW02DP	MW03SP	MW05SP	MW05DP	MW06P	MW11BP
January 4, 2002	6.71	DRY	3.98	4.65	DRY	COVERED
February 6-7, 2002	7.03	DRY	DRY	4.82	DRY	COVERED
March 28, 2002	5.90	DRY	3.45	3.95	DRY	COVERED
April 09, 2002	4.91	3.82	2.82	2.6	DRY	COVERED
May 01, 2002	5.91	DRY	3.44	3.97	DRY	COVERED
June 03, 2002	5.42	3.72	2.83	2.42	DRY	COVERED
July 02, 2002	6.73	DRY	4.1	4.75	DRY	COVERED

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS			WATER LEVEL			FEET
DATE	MW07P	MW08P	MW09SP			
January 04, 2002	DRY	4.21	6.32			
February 6-7, 2002	DRY	4.54	6.81			
March 28, 2002	3.9	2.09	5.49			
April 09, 2002	2.99	1.52	4.46			
May 01, 2001	3.77	2.04	5.36			
June 03, 2002	2.95	1.6	4.91			
July 02, 2002	5.03	4.08	6.21			

MONITOR WELL DEPTHS

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS		WATER LEVEL	FEET			
DATE	MW12BP	MW12DP	MW13SP	MW14DP	MW15DP	MW16SP
January 4, 2002	4.72	4.27	5.64	4.07	10.11	3.39
February 6-7, 2002	5.11	4.51	5.98	4.31	10.39	3.59
March 28, 2002	4.19	3.07	5.05	3.03	9.67	2.78
April 9 & 11, 2002	3.1	1.99	4.16	2.84	8.68	2.19
May 01, 2002	4.16	3.09	4.9	2.71	6.66	2.68
June 3-6, 2002	3.9	2.6	4.24	2.02	9.33	2.4
July 02, 2002	4.91	3.88	5.63	3.67	10.55	4.01

OCONOMOWOC GROUNDWATER TREATMENT PLANT						
MONITORING WELLS		WATER LEVEL	FEET			
DATE	MW01DP	MW01SP	MW02SP	MW03DP	MW04DP	MW04SP
January 04, 2002	6.71	6.28	DRY	8.47	9.2	7.81
February 6-7, 2002	7.05	6.49	DRY	8.55	9.45	7.95
March 28, 2002	5.5	5.37	5.97	8.97	7.53	6.83
April 09, 2002	5.59	4.56	3.93	7	6.39	5.1
May 01, 2002	5.25	5.12	5.83	7.93	7.12	6.44
June 03, 2002	5.78	4.61	2.77	7.73	7.76	6.09
July 02, 2002	5.74	6.13	DRY	8.71	8.27	7.55

PRECIPITATION

YEAR: 2002	
MONTH: JULY DAY	RAINFALL (INCHES)
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	1.10
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.35
23	0.00
24	0.00
25	0.00
26	1.15
27	0.00
28	0.10
29	0.01
30	0.00
31	0.00
TOTAL	2.71

OCONOMOWOC GROUNDWATER TREATMENT PLANT BACTERIA		
DAYS	EFFLUENT 6/28/02-7/6/02	EFFLUENT 7/7/02-7/13/02
1	LIGHT YELLOW	LIGHT YELLOW
2	DARK YELLOW	LIGHT YELLOW
3	DARK YELLOW W/BUBBLES	YELLOW W/BROWN BUBBLES
4	DARK YELLOW W/BROWN BUBBLES	YELLOW W/BROWN BUBBLES
5	GREEN W/BROWN BUBBLES	DARK YELLOW W/BROWN BUBBLES
6	GREEN W/BROWN BUBBLES	DARK YELLOW W/BROWN BUBBLES
7	GREEN W/BROWN BUBBLES	DARK YELLOW W/BROWN BUBBLES
8	GREEN W/BROWN BUBBLES	DARK YELLOW W/BROWN BUBBLES

FOAM/BUBBLES=ANAEROBIC BACTERIA.
GREEN=PSEUDOMONADS.
BLACK=PSEUDOMONADS AND ENTERICS.
YELLOW=NO BACTERIA
BROWN=IRON BACTERIA
YELLOW=NEGATIVE

OCONOMOWOC GROUNDWATER TREATMENT PLANT BACTERIA		
DAYS	EFFLUENT 7/12/02-7/20/02	EFFLUENT 7/19/02-7/27/02
1	LIGHT YELLOW	LIGHT YELLOW
2	LIGHT YELLOW W/BROWN BUBBLES	LIGHT YELLOW
3	LIGHT YELLOW W/BROWN BUBBLES	LIGHT YELLOW W/BUBBLES
4	DARK YELLOW W/BROWN BUBBLES	LIGHT YELLOW W/BUBBLES
5	GREEN W/BROWN BUBBLES	LIGHT YELLOW W/BROWN BUBBLES
6	GREEN W/BROWN BUBBLES	LIGHT YELLOW W/BROWN BUBBLES
7	GREEN W/BROWN BUBBLES	DARK YELLOW W/BROWN BUBBLES
8	GREEN W/BROWN BUBBLES	DARK YELLOW W/BROWN BUBBLES

APL INC.

INORGANIC REPORT

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

WDNR# 241340550

INVOICE NUMBER **20020484**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Sample Number: 29104		Matrix: GW						Collection: 7/1/2002		Time: 08:45
Client ID: **020701**								Sample Description: wa01p		
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	NA	7/3/2002	*1001294*	
Barium - ICAP	**0.11**	**mg/l**	**RJ**	0.007	0.02	200.7	am	7/9/2002	*1001327*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	NR	7/3/2002	*1001301*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**	**RJ**	0.4	1.3	7131	NR	7/3/2002	*1001308*	
Chromium, Total - ICAP	**<0.008**	**mg/l**	**RJ**	0.008	0.03	200.7	am	7/9/2002	*1001327*	
Copper- ICAP	**<0.006**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/9/2002	*1001327*	
Iron - ICAP	**1**	**mg/l**	**RJ**	0.081	0.26	200.7	am	7/9/2002	*1001327*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	lu	7/5/2002	*1001307*	
Manganese - ICAP	**0.16**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/9/2002	*1001327*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	am	7/9/2002	*1001346*	
Nickel - ICAP	**0.02**	**mg/l**	***J* RJ**	0.011	0.03	200.7	am	7/9/2002	*1001327*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	lu	7/5/2002	*1001305*	
Silver - ICAP	**0.006**	**mg/l**	***J* RJ**	0.004	0.01	200.7	am	7/9/2002	*1001327*	
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	7/8/2002	*1001314*	
Zinc - ICAP	**0.02**	**mg/l**	***J* RJ**	0.014	0.04	200.7	am	7/9/2002	*1001327*	
Chromium, Hexavalent	**<0.0042**	**mg/l**	**RJ**	0.004	0.01	SM 3500D	jts	7/2/2002	*1001524*	
COD. Total	**<5.7**	**mg/l**		5.7	18	410.4-CT	seh	7/2/2002	*1001525*	
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001359*	
Cyanide, Total	**0.007**	**mg/l**	***J* RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001357*	
pH (water)	**6.9**	**s.u.**	**# RJ**			150.1	lu	7/1/2002	*1001336*	
Solids, Total Suspended	**<1**	**mg/l**	**RJ**	1	3.2	SM 2540D	NR	7/1/1932	*1001292*	
Sample Number: 29105		Matrix: GW						Collection: 7/1/2002		Time: 08:20
Client ID: **020701**								Sample Description: wa05p		
pH (water)	**7.7**	**s.u.**	**# RJ**			150.1	lu	7/1/2002	*1001336*	
Sample Number: 29107		Matrix: GW						Collection: 7/1/2002		Time: 08:15
Client ID: **020701**								Sample Description: wa09p		
Chromium, Hexavalent	**<0.0042**	**mg/l**	**RJ**	0.004	0.01	SM 3500D	jts	7/2/2002	*1001524*	
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001359*	
Cyanide, Total	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001357*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20020484**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
pH (water)	**7.6**	**s.u.**	**# RJ**			150.1	lu	7/1/2002	*1001336*	
Sample Number: 29108		Matrix: GW						Collection: 7/1/2002		Time: 08:15
Client ID: **020701**								Sample Description: wa09R		
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	NA	7/3/2002	*1001294*	
Barium - ICAP	**0.1**	**mg/l**	**RJ**	0.007	0.02	200.7	am	7/9/2002	*1001327*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	NR	7/3/2002	*1001301*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**	**RJ**	0.4	1.3	7131	NR	7/3/2002	*1001308*	
Chromium, Total - ICAP	**0.02**	**mg/l**	***J* RJ**	0.008	0.03	200.7	am	7/9/2002	*1001327*	
Copper- ICAP	**<0.006**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/9/2002	*1001327*	
Iron - ICAP	**<0.081**	**mg/l**	**RJ**	0.081	0.26	200.7	am	7/9/2002	*1001327*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	lu	7/5/2002	*1001307*	
Manganese - ICAP	**0.18**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/9/2002	*1001327*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	am	7/9/2002	*1001346*	
Nickel - ICAP	**0.02**	**mg/l**	***J* RJ**	0.011	0.03	200.7	am	7/9/2002	*1001327*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	lu	7/5/2002	*1001305*	
Silver - ICAP	**<0.004**	**mg/l**	**RJ**	0.004	0.01	200.7	am	7/9/2002	*1001327*	
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	7/8/2002	*1001314*	
Zinc - ICAP	**0.05**	**mg/l**	**RJ**	0.014	0.04	200.7	am	7/9/2002	*1001327*	
COD. Total	**<5.7**	**mg/l**		5.7	18	410.4-CT	seh	7/2/2002	*1001525*	
Nitrate + Nitrite Nitrogen	**0.86**	**mg/l**	**RJ**	0.03	0.10	353.3	tds	7/2/2002	*1001527*	
Nitrogen, Ammonia	**0.27**	**mg/l**	***J* RJ**	0.1	0.32	350.1	tds	7/2/2002	*1001530*	
Phosphorus, Total	**<0.10**	**mg/l**	**RJ**	0.1	0.32	365.2	tds	7/2/2002	*1001526*	
Solids, Total Suspended	**<1**	**mg/l**	**RJ**	1	3.2	SM 2540D	NR	7/1/1932	*1001292*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER	**20020484**
DATE REPORTED:	29-Jul-02
DATE RECEIVED:	02-Jul-02
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	
PROJECT NAME:	OGTP

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

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

Approved By: D. Chang/Ba **Date:** 7/29/02

James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*

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

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

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Sample Number: 29104
Client ID: 020701

QC Prep Batch Number: 1001334

Collection: 7/1/2002 Time: 08:45
Sample Description: wa01p

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,1,1,2-Tetrachloroethane	< 1.1	ug/l	1.1	3.5	5		8260	qh	7/5/2002 / 7/5/2002
1,1,1-Trichloroethane	58	ug/l	1.6	4.9	5		8260	qh	7/5/2002 / 7/5/2002
1,1,2,2-Tetrachloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/5/2002 / 7/5/2002
1,1,2-Trichloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethane	9.7	ug/l	1.6	5.1	5		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloropropene	< 2.2	ug/l	2.2	6.8	5		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichlorobenzene	< 2.5	ug/l	2.5	8.0	5		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichloropropane	< 2.6	ug/l	2.6	8.1	5		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trichlorobenzene	< 2.4	ug/l	2.4	7.5	5		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/5/2002 / 7/5/2002
1,2-Dibromoethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichlorobenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloroethane	< 1.8	ug/l	1.8	5.6	5		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloropropane	< 1.6	ug/l	1.6	5.1	5		8260	qh	7/5/2002 / 7/5/2002
1,3,5-Trimethylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichloropropane	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/5/2002 / 7/5/2002
1,4-Dichlorobenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/5/2002 / 7/5/2002
12Dibromo-3-chloropropan	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/5/2002 / 7/5/2002
2,2-Dichloropropane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/5/2002 / 7/5/2002
2-Butanone (MEK)	< 6.9	ug/l	6.9	22	5		8260	qh	7/5/2002 / 7/5/2002
2-Chloroethyl Vinyl Ether	< 3.5	ug/l	3.5	11	5		8260	qh	7/5/2002 / 7/5/2002
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/5/2002 / 7/5/2002
4-Chlorotoluene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/5/2002 / 7/5/2002
4-Methyl-2-Pentanone	< 4.0	ug/l	4.0	13	5		8260	qh	7/5/2002 / 7/5/2002
Acetone	< 7.8	ug/l	7.8	25	5		8260	qh	7/5/2002 / 7/5/2002
Benzene	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/5/2002 / 7/5/2002
Bromobenzene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/5/2002 / 7/5/2002
Bromochloromethane	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/5/2002 / 7/5/2002
Bromodichloromethane	< 1.9	ug/l	1.9	6.0	5		8260	qh	7/5/2002 / 7/5/2002
Bromoform	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/5/2002 / 7/5/2002
Bromomethane	< 3.3	ug/l	3.3	10	5		8260	qh	7/5/2002 / 7/5/2002
Carbon tetrachloride	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/5/2002 / 7/5/2002
Chlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/5/2002 / 7/5/2002
Chloroethane	< 3.2	ug/l	3.2	10	5		8260	qh	7/5/2002 / 7/5/2002
Chloroform	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/5/2002 / 7/5/2002
Chloromethane	< 2.5	ug/l	2.5	7.8	5		8260	qh	7/5/2002 / 7/5/2002
cis-1,2-Dichloroethene	22	ug/l	1.4	4.3	5		8260	qh	7/5/2002 / 7/5/2002
cis-1,3-Dichloropropene	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/5/2002 / 7/5/2002
Dibromochloromethane	< 2.1	ug/l	2.1	6.5	5		8260	qh	7/5/2002 / 7/5/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dibromomethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/5/2002 / 7/5/2002
Dichlorodifluoromethane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/5/2002 / 7/5/2002
Ethylbenzene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/5/2002 / 7/5/2002
Hexachlorobutadiene	< 2.1	ug/l	2.1	6.7	5		8260	qh	7/5/2002 / 7/5/2002
Isopropyl Ether	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/5/2002 / 7/5/2002
Isopropylbenzene	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/5/2002 / 7/5/2002
m&p-xylene	< 2.7	ug/l	2.7	8.4	5		8260	qh	7/5/2002 / 7/5/2002
Methyl-t-butyl ether	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/5/2002 / 7/5/2002
Methylene chloride	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/5/2002 / 7/5/2002
n-Butylbenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/5/2002 / 7/5/2002
n-Propylbenzene	< 1.4	ug/l	1.4	4.5	5		8260	qh	7/5/2002 / 7/5/2002
Naphthalene	< 3.8	ug/l	3.8	12	5		8260	qh	7/5/2002 / 7/5/2002
o-xylene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/5/2002 / 7/5/2002
p-Isopropyltoluene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/5/2002 / 7/5/2002
sec-Butylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/5/2002 / 7/5/2002
Styrene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/5/2002 / 7/5/2002
tert-Butylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/5/2002 / 7/5/2002
Tetrachloroethene	1.6	ug/l	1.6	4.9	5		8260	qh	7/5/2002 / 7/5/2002
Toluene	< 1.5	ug/l	1.5	4.6	5		8260	qh	7/5/2002 / 7/5/2002
trans-1,2-Dichloroethene	8.0	ug/l	1.3	4.0	5		8260	qh	7/5/2002 / 7/5/2002
trans-1,3-Dichloropropene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/5/2002 / 7/5/2002
Trichloroethene	237	ug/l	1.7	5.4	5		8260	qh	7/5/2002 / 7/5/2002
Trichlorofluoromethane	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/5/2002 / 7/5/2002
Vinyl chloride	1.1	ug/l	1.0	3.2	5	J	8260	qh	7/5/2002 / 7/5/2002

Sample Number: 29106
Client ID: 020701

QC Prep Batch Number: 1001334

Collection: 7/1/2002 Time: 08:30
Sample Description: wa07p

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/5/2002 / 7/5/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/5/2002 / 7/5/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/5/2002 / 7/5/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/5/2002 / 7/5/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/5/2002 / 7/5/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/5/2002 / 7/5/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/5/2002 / 7/5/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/5/2002 / 7/5/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/5/2002 / 7/5/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/5/2002 / 7/5/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/5/2002 / 7/5/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Trichloroethene	1.4	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/5/2002 / 7/5/2002

Sample Number: 29107 QC Prep Batch Number: 1001334 Collection: 7/1/2002 Time: 08:15
Client ID: 020701 Sample Description: wa09p

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/5/2002 / 7/5/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/5/2002 / 7/5/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/5/2002 / 7/5/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/5/2002 / 7/5/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/5/2002 / 7/5/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/5/2002 / 7/5/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/5/2002 / 7/5/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/5/2002 / 7/5/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/5/2002 / 7/5/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/5/2002 / 7/5/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/5/2002 / 7/5/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Trichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/5/2002 / 7/5/2002

Sample Number: 29109
Client ID: 020701

QC Prep Batch Number: 1001334

Collection: 7/1/2002 Time: 08:30
Sample Description: WA07Q

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/5/2002 / 7/5/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/5/2002 / 7/5/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/5/2002 / 7/5/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/5/2002 / 7/5/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/5/2002 / 7/5/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/5/2002 / 7/5/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/5/2002 / 7/5/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/5/2002 / 7/5/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/5/2002 / 7/5/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/5/2002 / 7/5/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002

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

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	qh	7/5/2002 / 7/5/2002
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Trichloroethene	1.9	**ug/l**	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Vinyl chloride	< 0.20	**ug/l**	0.20	0.64	1		8260	qh	7/5/2002 / 7/5/2002

Sample Number: 29110
Client ID: TRIP BLANK

QC Prep Batch Number: 1001334

Collection: 7/1/2002 Time:
Sample Description:

1,1,1,2-Tetrachloroethane	< 0.22	**ug/l**	0.22	0.70	1		8260	qh	7/5/2002 / 7/5/2002
1,1,1-Trichloroethane	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2,2-Tetrachloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1,2-Trichloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethane	< 0.32	**ug/l**	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,1-Dichloropropene	< 0.43	**ug/l**	0.43	1.4	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichlorobenzene	< 0.50	**ug/l**	0.50	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,3-Trichloropropane	< 0.51	**ug/l**	0.51	1.6	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trichlorobenzene	< 0.47	**ug/l**	0.47	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2,4-Trimethylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dibromoethane	< 0.46	**ug/l**	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichlorobenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloroethane	< 0.35	**ug/l**	0.35	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,2-Dichloropropane	< 0.32	**ug/l**	0.32	1.0	1		8260	qh	7/5/2002 / 7/5/2002
1,3,5-Trimethylbenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichlorobenzene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
1,3-Dichloropropane	< 0.39	**ug/l**	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
1,4-Dichlorobenzene	< 0.36	**ug/l**	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
12Dibromo-3-chloropropan	< 0.33	**ug/l**	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
2,2-Dichloropropane	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
2-Butanone (MEK)	< 1.4	**ug/l**	1.4	4.4	1		8260	qh	7/5/2002 / 7/5/2002
2-Chloroethyl Vinyl Ether	< 0.70	**ug/l**	0.70	2.2	1		8260	qh	7/5/2002 / 7/5/2002
2-Chlorotoluene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
4-Chlorotoluene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
4-Methyl-2-Pentanone	< 0.80	**ug/l**	0.80	2.5	1		8260	qh	7/5/2002 / 7/5/2002
Acetone	< 1.6	**ug/l**	1.6	4.9	1		8260	qh	7/5/2002 / 7/5/2002
Benzene	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Bromobenzene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Bromochloromethane	< 0.37	**ug/l**	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromodichloromethane	< 0.38	**ug/l**	0.38	1.2	1		8260	qh	7/5/2002 / 7/5/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020484**
DATE REPORTED: 15-Jul-02
DATE RECEIVED: 02-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/5/2002 / 7/5/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/5/2002 / 7/5/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/5/2002 / 7/5/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/5/2002 / 7/5/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/5/2002 / 7/5/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/5/2002 / 7/5/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/5/2002 / 7/5/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/5/2002 / 7/5/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/5/2002 / 7/5/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/5/2002 / 7/5/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/5/2002 / 7/5/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/5/2002 / 7/5/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/5/2002 / 7/5/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/5/2002 / 7/5/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/5/2002 / 7/5/2002
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/5/2002 / 7/5/2002
Trichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/5/2002 / 7/5/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/5/2002 / 7/5/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/5/2002 / 7/5/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER:	**20020484**
DATE REPORTED:	15-Jul-02
DATE RECEIVED:	02-Jul-02
SAMPLE TEMP (C):	Rec On Ice
PROJECT ID:	
PROJECT NAME:	OGTP

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

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

Approved By: _____ **Date:** 7/15/02
James Chang, Ph.D. , Lab Director

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

APL INC.

INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

Sample Number: 29142 Matrix: GW
Client ID: **020708**
Collection: 7/8/2002 Time: 09:20
Sample Description: WA09R

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	bb	7/16/2002	*1001385*	
Barium - ICAP	**0.1**	**mg/l**	**RJ**	0.007	0.02	200.7	am	7/15/2002	*1001370*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	nr		*1001402*	
Cadmium-Total Recoverable	**0**	**ug/l**		0.4	1.3	7131				
Chromium, Total - ICAP	**<0.008**	**mg/l**	**RJ**	0.008	0.03	200.7	am	7/15/2002	*1001370*	
Copper- ICAP	**<0.006**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/15/2002	*1001370*	
Iron - ICAP	**<0.081**	**mg/l**	**RJ**	0.081	0.26	200.7	am	7/15/2002	*1001370*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	nr	7/18/2002	*1001425*	
Manganese - ICAP	**0.02**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/15/2002	*1001370*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	am	7/9/2002	*1001346*	
Nickel - ICAP	**<0.011**	**mg/l**	**RJ**	0.011	0.03	200.7	am	7/15/2002	*1001370*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	nr	7/18/2002	*1001419*	
Silver - ICAP	**<0.004**	**mg/l**	**RJ**	0.004	0.01	200.7	am	7/15/2002	*1001370*	
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	7/8/2002	*1001314*	
Zinc - ICAP	**0.03**	**mg/l**	***J*** **RJ**	0.014	0.04	200.7	am	7/15/2002	*1001370*	

Sample Number: 29143 Matrix: GW
Client ID: **020708**
Collection: 7/8/2002 Time: 09:10
Sample Description: WA01P

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	bb	7/16/2002	*1001385*	
Barium - ICAP	**0.1**	**mg/l**	**RJ**	0.007	0.02	200.7	am	7/15/2002	*1001370*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	nr		*1001402*	
Cadmium-Total Recoverable	**0**	**ug/l**		0.4	1.3	7131				
Chromium, Total - ICAP	**<0.008**	**mg/l**	**RJ**	0.008	0.03	200.7	am	7/15/2002	*1001370*	
Copper- ICAP	**<0.006**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/15/2002	*1001370*	
Iron - ICAP	**1**	**mg/l**	**RJ**	0.081	0.26	200.7	am	7/15/2002	*1001370*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	nr	7/18/2002	*1001425*	
Manganese - ICAP	**0.14**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/15/2002	*1001370*	
Mercury CV	**0.0003**	**mg/l**	***J*** **RJ**	0.0002	0.0006	245.1	am	7/9/2002	*1001346*	
Nickel - ICAP	**<0.011**	**mg/l**	**RJ**	0.011	0.03	200.7	am	7/15/2002	*1001370*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	nr	7/18/2002	*1001419*	
Silver - ICAP	**0.007**	**mg/l**	***J*** **RJ**	0.004	0.01	200.7	am	7/15/2002	*1001370*	

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

Dr. James Chang
APL Environmental
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Milwaukee , WI 53223

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	7/8/2002	*1001314*	
Zinc - ICAP	**<0.014**	**mg/l**	**RJ**	0.014	0.04	200.7	am	7/15/2002	*1001370*	
Chromium, Hexavalent	**<0.0042**	**mg/l**	**RJ**	0.004	0.01	SM 3500D	JTS	7/9/2002	*1001350*	
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001359*	
Cyanide, Total	**0.01**	**mg/l**	***J*** **RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001357*	
pH (water)	**7.1**	**s.u.**	**# RJ**			150.1	lu	7/1/2002	*1001336*	
Sample Number: 29144		Matrix: GW						Collection: 7/8/2002		Time: 09:15
Client ID: **020708**								Sample Description: WA05P		
pH (water)	**7.5**	**s.u.**	**# RJ**			150.1	lu	7/1/2002	*1001336*	
Sample Number: 29146		Matrix: GW						Collection: 7/8/2002		Time: 09:30
Client ID: **020708**								Sample Description: WA09P		
Chromium, Hexavalent	**<0.0042**	**mg/l**	**RJ**	0.004	0.01	SM 3500D	JTS	7/9/2002	*1001350*	
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001359*	
Cyanide, Total	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	nr	7/12/2002	*1001357*	
pH (water)	**7.9**	**s.u.**	**# RJ**			150.1	lu	7/1/2002	*1001336*	

Approved By: D. Chang/Bh **Date:** 7/29/02
James Chang, Ph.D., Lab Director

RJ *Result expressed as Total.*

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

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

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Sample Number: 29143
Client ID: 020708

QC Prep Batch Number: 1001374

Collection: 7/8/2002 Time: 09:10
Sample Description: WA01P

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,1,1,2-Tetrachloroethane	< 1.1	ug/l	1.1	3.5	5		8260	qh	7/11/2002 / 7/11/2002
1,1,1-Trichloroethane	57	ug/l	1.6	4.9	5		8260	qh	7/11/2002 / 7/11/2002
1,1,2,2-Tetrachloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/11/2002 / 7/11/2002
1,1,2-Trichloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethane	7.6	ug/l	1.6	5.1	5		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloropropene	< 2.2	ug/l	2.2	6.8	5		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichlorobenzene	< 2.5	ug/l	2.5	8.0	5		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichloropropane	< 2.6	ug/l	2.6	8.1	5		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trichlorobenzene	< 2.4	ug/l	2.4	7.5	5		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/11/2002 / 7/11/2002
1,2-Dibromoethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichlorobenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloroethane	< 1.8	ug/l	1.8	5.6	5		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloropropane	< 1.6	ug/l	1.6	5.1	5		8260	qh	7/11/2002 / 7/11/2002
1,3,5-Trimethylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/11/2002 / 7/11/2002
1,3-Dichlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/11/2002 / 7/11/2002
1,3-Dichloropropane	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/11/2002 / 7/11/2002
1,4-Dichlorobenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/11/2002 / 7/11/2002
12Dibromo-3-chloropropan	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/11/2002 / 7/11/2002
2,2-Dichloropropane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/11/2002 / 7/11/2002
2-Butanone (MEK)	< 6.9	ug/l	6.9	22	5		8260	qh	7/11/2002 / 7/11/2002
2-Chloroethyl Vinyl Ether	< 3.5	ug/l	3.5	11	5		8260	qh	7/11/2002 / 7/11/2002
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/11/2002 / 7/11/2002
4-Chlorotoluene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/11/2002 / 7/11/2002
4-Methyl-2-Pentanone	< 4.0	ug/l	4.0	13	5		8260	qh	7/11/2002 / 7/11/2002
Acetone	< 7.8	ug/l	7.8	25	5		8260	qh	7/11/2002 / 7/11/2002
Benzene	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/11/2002 / 7/11/2002
Bromobenzene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/11/2002 / 7/11/2002
Bromochloromethane	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/11/2002 / 7/11/2002
Bromodichloromethane	< 1.9	ug/l	1.9	6.0	5		8260	qh	7/11/2002 / 7/11/2002
Bromoform	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/11/2002 / 7/11/2002
Bromomethane	< 3.3	ug/l	3.3	10	5		8260	qh	7/11/2002 / 7/11/2002
Carbon tetrachloride	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/11/2002 / 7/11/2002
Chlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/11/2002 / 7/11/2002
Chloroethane	< 3.2	ug/l	3.2	10	5		8260	qh	7/11/2002 / 7/11/2002
Chloroform	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/11/2002 / 7/11/2002
Chloromethane	< 2.5	ug/l	2.5	7.8	5		8260	qh	7/11/2002 / 7/11/2002
cis-1,2-Dichloroethene	20	ug/l	1.4	4.3	5		8260	qh	7/11/2002 / 7/11/2002
cis-1,3-Dichloropropene	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/11/2002 / 7/11/2002
Dibromochloromethane	< 2.1	ug/l	2.1	6.5	5		8260	qh	7/11/2002 / 7/11/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dibromomethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/11/2002 / 7/11/2002
Dichlorodifluoromethane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/11/2002 / 7/11/2002
Ethylbenzene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/11/2002 / 7/11/2002
Hexachlorobutadiene	< 2.1	ug/l	2.1	6.7	5		8260	qh	7/11/2002 / 7/11/2002
Isopropyl Ether	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/11/2002 / 7/11/2002
Isopropylbenzene	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/11/2002 / 7/11/2002
m&p-xylene	< 2.7	ug/l	2.7	8.4	5		8260	qh	7/11/2002 / 7/11/2002
Methyl-t-butyl ether	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/11/2002 / 7/11/2002
Methylene chloride	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/11/2002 / 7/11/2002
n-Butylbenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/11/2002 / 7/11/2002
n-Propylbenzene	< 1.4	ug/l	1.4	4.5	5		8260	qh	7/11/2002 / 7/11/2002
Naphthalene	< 3.8	ug/l	3.8	12	5		8260	qh	7/11/2002 / 7/11/2002
o-xylene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/11/2002 / 7/11/2002
p-Isopropyltoluene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/11/2002 / 7/11/2002
sec-Butylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/11/2002 / 7/11/2002
Styrene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/11/2002 / 7/11/2002
tert-Butylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/11/2002 / 7/11/2002
Tetrachloroethene	1.7	ug/l	1.6	4.9	5	J	8260	qh	7/11/2002 / 7/11/2002
Toluene	< 1.5	ug/l	1.5	4.6	5		8260	qh	7/11/2002 / 7/11/2002
trans-1,2-Dichloroethene	5.9	ug/l	1.3	4.0	5		8260	qh	7/11/2002 / 7/11/2002
trans-1,3-Dichloropropene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/11/2002 / 7/11/2002
Trichloroethene	225	ug/l	1.7	5.4	5		8260	qh	7/11/2002 / 7/11/2002
Trichlorofluoromethane	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/11/2002 / 7/11/2002
Vinyl chloride	1.1	ug/l	1.0	3.2	5	J	8260	qh	7/11/2002 / 7/11/2002

Sample Number: 29145
Client ID: 020708

QC Prep Batch Number: 1001374

Collection: 7/8/2002 Time: 09:18
Sample Description: WA07P

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/11/2002 / 7/11/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/11/2002 / 7/11/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/11/2002 / 7/11/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/11/2002 / 7/11/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/11/2002 / 7/11/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/11/2002 / 7/11/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/11/2002 / 7/11/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/11/2002 / 7/11/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/11/2002 / 7/11/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/11/2002 / 7/11/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/11/2002 / 7/11/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/11/2002 / 7/11/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/11/2002 / 7/11/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/11/2002 / 7/11/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/11/2002 / 7/11/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/11/2002 / 7/11/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/11/2002 / 7/11/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/11/2002 / 7/11/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/11/2002 / 7/11/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/11/2002 / 7/11/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/11/2002 / 7/11/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
Trichloroethene	1.5	**ug/l**	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	qh	7/11/2002 / 7/11/2002
Vinyl chloride	< 0.20	**ug/l**	0.20	0.64	1		8260	qh	7/11/2002 / 7/11/2002

Sample Number: 29146 QC Prep Batch Number: 1001374 Collection: 7/8/2002 Time: 09:30
Client ID: 020708 Sample Description: WA09P

1,1,1,2-Tetrachloroethane	< 0.22	**ug/l**	0.22	0.70	1		8260	qh	7/11/2002 / 7/11/2002
1,1,1-Trichloroethane	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
1,1,2,2-Tetrachloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,1,2-Trichloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethane	< 0.32	**ug/l**	0.32	1.0	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloropropene	< 0.43	**ug/l**	0.43	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichlorobenzene	< 0.50	**ug/l**	0.50	1.6	1		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichloropropane	< 0.51	**ug/l**	0.51	1.6	1		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trichlorobenzene	< 0.47	**ug/l**	0.47	1.5	1		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trimethylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dibromoethane	< 0.46	**ug/l**	0.46	1.5	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichlorobenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloroethane	< 0.35	**ug/l**	0.35	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloropropane	< 0.32	**ug/l**	0.32	1.0	1		8260	qh	7/11/2002 / 7/11/2002
1,3,5-Trimethylbenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,3-Dichlorobenzene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
1,3-Dichloropropane	< 0.39	**ug/l**	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
1,4-Dichlorobenzene	< 0.36	**ug/l**	0.36	1.1	1		8260	qh	7/11/2002 / 7/11/2002
12Dibromo-3-chloropropan	< 0.33	**ug/l**	0.33	1.0	1		8260	qh	7/11/2002 / 7/11/2002
2,2-Dichloropropane	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
2-Butanone (MEK)	< 1.4	**ug/l**	1.4	4.4	1		8260	qh	7/11/2002 / 7/11/2002
2-Chloroethyl Vinyl Ether	< 0.70	**ug/l**	0.70	2.2	1		8260	qh	7/11/2002 / 7/11/2002
2-Chlorotoluene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
4-Chlorotoluene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
4-Methyl-2-Pentanone	< 0.80	**ug/l**	0.80	2.5	1		8260	qh	7/11/2002 / 7/11/2002
Acetone	< 1.6	**ug/l**	1.6	4.9	1		8260	qh	7/11/2002 / 7/11/2002
Benzene	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Bromobenzene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
Bromochloromethane	< 0.37	**ug/l**	0.37	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromodichloromethane	< 0.38	**ug/l**	0.38	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromoform	< 0.39	**ug/l**	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromomethane	< 0.65	**ug/l**	0.65	2.1	1		8260	qh	7/11/2002 / 7/11/2002
Carbon tetrachloride	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Chlorobenzene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
Chloroethane	< 0.64	**ug/l**	0.64	2.0	1		8260	qh	7/11/2002 / 7/11/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/11/2002 / 7/11/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/11/2002 / 7/11/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/11/2002 / 7/11/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/11/2002 / 7/11/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/11/2002 / 7/11/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/11/2002 / 7/11/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/11/2002 / 7/11/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/11/2002 / 7/11/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/11/2002 / 7/11/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/11/2002 / 7/11/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/11/2002 / 7/11/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
Trichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/11/2002 / 7/11/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/11/2002 / 7/11/2002

Sample Number: 29147
Client ID: TRIP BLK

QC Prep Batch Number: 1001374

Collection: 7/8/2002 Time:
Sample Description:

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/11/2002 / 7/11/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/11/2002 / 7/11/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/11/2002 / 7/11/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/11/2002 / 7/11/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/11/2002 / 7/11/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/11/2002 / 7/11/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/11/2002 / 7/11/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/11/2002 / 7/11/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/11/2002 / 7/11/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/11/2002 / 7/11/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/11/2002 / 7/11/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/11/2002 / 7/11/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/11/2002 / 7/11/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/11/2002 / 7/11/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/11/2002 / 7/11/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/11/2002 / 7/11/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/11/2002 / 7/11/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/11/2002 / 7/11/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/11/2002 / 7/11/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/11/2002 / 7/11/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/11/2002 / 7/11/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/11/2002 / 7/11/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/11/2002 / 7/11/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/11/2002 / 7/11/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020497**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 08-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/11/2002 / 7/11/2002
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/11/2002 / 7/11/2002
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	qh	7/11/2002 / 7/11/2002
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/11/2002 / 7/11/2002
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/11/2002 / 7/11/2002
Trichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/11/2002 / 7/11/2002
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	qh	7/11/2002 / 7/11/2002
Vinyl chloride	< 0.20	**ug/l**	0.20	0.64	1		8260	qh	7/11/2002 / 7/11/2002

Approved By: _____ **Date:** 7/29/02
James Chang, Ph.D., Lab Director

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

APL INC.

INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER **20020513**
DATE REPORTED: 03-Sep-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Sample Number: 29189	Matrix: GW						Collection: 7/15/2002	Time: 09:40		
Client ID: **020715**							Sample Description: WA01P			
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	NR	7/17/2002	*1001416*	
Barium - ICAP	**0.1**	**mg/l**	**RJ**	0.007	0.02	200.7	am	7/23/2002	*1001445*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	nr	7/26/2002	*1001402*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**		0.4	1.3	7131		7/26/2002		
Chromium, Total - ICAP	**<0.008**	**mg/l**	**RJ**	0.008	0.03	200.7	am	7/23/2002	*1001445*	
Copper- ICAP	**<0.006**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/23/2002	*1001445*	
Iron - ICAP	**0.98**	**mg/l**	**RJ**	0.081	0.26	200.7	am	7/23/2002	*1001445*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	nr	7/18/2002	*1001425*	
Manganese - ICAP	**0.14**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/23/2002	*1001445*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	bb	7/17/2002	*1001403*	
Nickel - ICAP	**<0.011**	**mg/l**	**RJ**	0.011	0.03	200.7	am	7/23/2002	*1001445*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	nr	7/18/2002	*1001419*	
Silver - ICAP	**<0.004**	**mg/l**	**RJ**	0.004	0.01	200.7	am	7/23/2002	*1001445*	
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	7/23/2002	*1001442*	
Zinc - ICAP	**<0.014**	**mg/l**	**RJ**	0.014	0.04	200.7	am	7/23/2002	*1001445*	
Chromium, Hexavalent	**<0.004**	**ug/l**		0.004	0.01	SM 3500D				*Test Am.*
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	NR	7/19/2002	*1001431*	
Cyanide, Total	**0.01**	**mg/l**	***J* RJ**	0.006	0.02	335.2	nr	7/19/2002	*1001432*	
pH (water)	**7.2**	**s.u.**	**# RJ**			150.1	dean	7/15/2002		
Sample Number: 29190	Matrix: GW						Collection: 7/15/2002	Time: 09:37		
Client ID: **020715**							Sample Description: WA05P			
pH (water)	**7.5**	**s.u.**	**# RJ**			150.1	dean	7/15/2002		
Sample Number: 29192	Matrix: GW						Collection: 7/15/2002	Time: 09:30		
Client ID: **020715**							Sample Description: WA09P			
Chromium, Hexavalent	**<0.004**	**mg/l**		0.004	0.01	SM 3500D				*Test Am.*
Cyanide, Amenable	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	NR	7/19/2002	*1001431*	
Cyanide, Total	**<0.006**	**mg/l**	**RJ**	0.006	0.02	335.2	nr	7/19/2002	*1001432*	
pH (water)	**7.6**	**s.u.**	**# RJ**			150.1	dean	7/15/2002		

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER 20020513
DATE REPORTED: 03-Sep-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Sample Number: 29193 Matrix: GW
Client ID: **020715**
Collection: 7/15/2002 Time: 09:45
Sample Description: WA09R

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Antimony - ICAP	**<0.041**	**mg/l**	**RJ**	0.041	0.13	200.7	am	7/26/2002	*1001502*	
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	NR	7/17/2002	*1001416*	
Barium - ICAP	**0.09**	**mg/l**	**RJ**	0.007	0.02	200.7	am	7/26/2002	*1001502*	
Beryllium - ICAP	**<0.005**	**mg/l**	**RJ**	0.005	0.02	200.7	am	7/26/2002	*1001502*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	nr	7/26/2002	*1001402*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**		0.4	1.3	7131		7/26/2002		
Chromium, Total - ICAP	**0.01**	**mg/l**	***J* RJ**	0.008	0.03	200.7	am	7/26/2002	*1001502*	
Copper- ICAP	**0.05**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/26/2002	*1001502*	
Iron - ICAP	**<0.081**	**mg/l**	**RJ**	0.081	0.26	200.7	am	7/26/2002	*1001502*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	nr	7/18/2002	*1001425*	
Manganese - ICAP	**0.04**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/26/2002	*1001502*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	bb	7/17/2002	*1001403*	
Nickel - ICAP	**<0.011**	**mg/l**	**RJ**	0.011	0.03	200.7	am	7/26/2002	*1001502*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	nr	7/18/2002	*1001419*	
Silver - ICAP	**0.005**	**mg/l**	***J* RJ**	0.004	0.01	200.7	am	7/26/2002	*1001502*	
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	7/23/2002	*1001442*	
Zinc - ICAP	**0.05**	**mg/l**	**RJ**	0.014	0.04	200.7	am	7/26/2002	*1001502*	

Approved By: James Chang AM **Date:** 9/3/02
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*

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

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

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020513**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Sample Number: 29189
Client ID: 020715

QC Prep Batch Number: 1001418

Collection: 7/15/2002 Time: 09:40
Sample Description: WA01P

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,1,1,2-Tetrachloroethane	< 1.1	ug/l	1.1	3.5	5		8260	qh	7/16/2002 / 7/16/2002
1,1,1-Trichloroethane	69	ug/l	1.6	4.9	5		8260	qh	7/16/2002 / 7/16/2002
1,1,2,2-Tetrachloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/16/2002 / 7/16/2002
1,1,2-Trichloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethane	9.8	ug/l	1.6	5.1	5		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethene	2.3	ug/l	1.7	5.4	5	J	8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloropropene	< 2.2	ug/l	2.2	6.8	5		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichlorobenzene	< 2.5	ug/l	2.5	8.0	5		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichloropropane	< 2.6	ug/l	2.6	8.1	5		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trichlorobenzene	< 2.4	ug/l	2.4	7.5	5		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/16/2002 / 7/16/2002
1,2-Dibromoethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichlorobenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloroethane	< 1.8	ug/l	1.8	5.6	5		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloropropane	< 1.6	ug/l	1.6	5.1	5		8260	qh	7/16/2002 / 7/16/2002
1,3,5-Trimethylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/16/2002 / 7/16/2002
1,3-Dichlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/16/2002 / 7/16/2002
1,3-Dichloropropane	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/16/2002 / 7/16/2002
1,4-Dichlorobenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/16/2002 / 7/16/2002
12Dibromo-3-chloropropan	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/16/2002 / 7/16/2002
2,2-Dichloropropane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/16/2002 / 7/16/2002
2-Butanone (MEK)	< 6.9	ug/l	6.9	22	5		8260	qh	7/16/2002 / 7/16/2002
2-Chloroethyl Vinyl Ether	< 3.5	ug/l	3.5	11	5		8260	qh	7/16/2002 / 7/16/2002
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/16/2002 / 7/16/2002
4-Chlorotoluene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/16/2002 / 7/16/2002
4-Methyl-2-Pentanone	< 4.0	ug/l	4.0	13	5		8260	qh	7/16/2002 / 7/16/2002
Acetone	< 7.8	ug/l	7.8	25	5		8260	qh	7/16/2002 / 7/16/2002
Benzene	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/16/2002 / 7/16/2002
Bromobenzene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/16/2002 / 7/16/2002
Bromochloromethane	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/16/2002 / 7/16/2002
Bromodichloromethane	< 1.9	ug/l	1.9	6.0	5		8260	qh	7/16/2002 / 7/16/2002
Bromoform	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/16/2002 / 7/16/2002
Bromomethane	< 3.3	ug/l	3.3	10	5		8260	qh	7/16/2002 / 7/16/2002
Carbon tetrachloride	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/16/2002 / 7/16/2002
Chlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/16/2002 / 7/16/2002
Chloroethane	< 3.2	ug/l	3.2	10	5		8260	qh	7/16/2002 / 7/16/2002
Chloroform	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/16/2002 / 7/16/2002
Chloromethane	< 2.5	ug/l	2.5	7.8	5		8260	qh	7/16/2002 / 7/16/2002
cis-1,2-Dichloroethene	25	ug/l	1.4	4.3	5		8260	qh	7/16/2002 / 7/16/2002
cis-1,3-Dichloropropene	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/16/2002 / 7/16/2002
Dibromochloromethane	< 2.1	ug/l	2.1	6.5	5		8260	qh	7/16/2002 / 7/16/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020513**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dibromomethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/16/2002 / 7/16/2002
Dichlorodifluoromethane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/16/2002 / 7/16/2002
Ethylbenzene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/16/2002 / 7/16/2002
Hexachlorobutadiene	< 2.1	ug/l	2.1	6.7	5		8260	qh	7/16/2002 / 7/16/2002
Isopropyl Ether	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/16/2002 / 7/16/2002
Isopropylbenzene	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/16/2002 / 7/16/2002
m&p-xylene	< 2.7	ug/l	2.7	8.4	5		8260	qh	7/16/2002 / 7/16/2002
Methyl-t-butyl ether	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/16/2002 / 7/16/2002
Methylene chloride	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/16/2002 / 7/16/2002
n-Butylbenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/16/2002 / 7/16/2002
n-Propylbenzene	< 1.4	ug/l	1.4	4.5	5		8260	qh	7/16/2002 / 7/16/2002
Naphthalene	< 3.8	ug/l	3.8	12	5		8260	qh	7/16/2002 / 7/16/2002
o-xylene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/16/2002 / 7/16/2002
p-Isopropyltoluene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/16/2002 / 7/16/2002
sec-Butylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/16/2002 / 7/16/2002
Styrene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/16/2002 / 7/16/2002
tert-Butylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/16/2002 / 7/16/2002
Tetrachloroethene	2.1	ug/l	1.6	4.9	5	J	8260	qh	7/16/2002 / 7/16/2002
Toluene	< 1.5	ug/l	1.5	4.6	5		8260	qh	7/16/2002 / 7/16/2002
trans-1,2-Dichloroethene	6.3	ug/l	1.3	4.0	5		8260	qh	7/16/2002 / 7/16/2002
trans-1,3-Dichloropropene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/16/2002 / 7/16/2002
Trichloroethene	270	ug/l	1.7	5.4	5		8260	qh	7/16/2002 / 7/16/2002
Trichlorofluoromethane	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/16/2002 / 7/16/2002
Vinyl chloride	1.4	ug/l	1.0	3.2	5	J	8260	qh	7/16/2002 / 7/16/2002

Sample Number: 29191
Client ID: 020715

QC Prep Batch Number: 1001418

Collection: 7/15/2002 Time: 09:35
Sample Description: WA07P

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/16/2002 / 7/16/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/16/2002 / 7/16/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020513**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/16/2002 / 7/16/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/16/2002 / 7/16/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/16/2002 / 7/16/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/16/2002 / 7/16/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/16/2002 / 7/16/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/16/2002 / 7/16/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/16/2002 / 7/16/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/16/2002 / 7/16/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/16/2002 / 7/16/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/16/2002 / 7/16/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/16/2002 / 7/16/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/16/2002 / 7/16/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/16/2002 / 7/16/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/16/2002 / 7/16/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/16/2002 / 7/16/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/16/2002 / 7/16/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/16/2002 / 7/16/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/16/2002 / 7/16/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/16/2002 / 7/16/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020513**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
Trichloroethene	1.8	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/16/2002 / 7/16/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/16/2002 / 7/16/2002

Sample Number: 29192
Client ID: 020715

QC Prep Batch Number: 1001418

Collection: 7/15/2002 Time: 09:30
Sample Description: WA09P

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/16/2002 / 7/16/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/16/2002 / 7/16/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/16/2002 / 7/16/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/16/2002 / 7/16/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/16/2002 / 7/16/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/16/2002 / 7/16/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/16/2002 / 7/16/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/16/2002 / 7/16/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/16/2002 / 7/16/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/16/2002 / 7/16/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020513**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/16/2002 / 7/16/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/16/2002 / 7/16/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/16/2002 / 7/16/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/16/2002 / 7/16/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/16/2002 / 7/16/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/16/2002 / 7/16/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/16/2002 / 7/16/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/16/2002 / 7/16/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/16/2002 / 7/16/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/16/2002 / 7/16/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/16/2002 / 7/16/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
Trichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/16/2002 / 7/16/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/16/2002 / 7/16/2002

Sample Number: 29194
Client ID: Trip Blk

QC Prep Batch Number: 1001418

Collection: 7/15/2002 Time:
Sample Description:

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/16/2002 / 7/16/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/16/2002 / 7/16/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/16/2002 / 7/16/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020513**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/16/2002 / 7/16/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/16/2002 / 7/16/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/16/2002 / 7/16/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/16/2002 / 7/16/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/16/2002 / 7/16/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/16/2002 / 7/16/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/16/2002 / 7/16/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/16/2002 / 7/16/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/16/2002 / 7/16/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/16/2002 / 7/16/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/16/2002 / 7/16/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/16/2002 / 7/16/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/16/2002 / 7/16/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/16/2002 / 7/16/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/16/2002 / 7/16/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/16/2002 / 7/16/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/16/2002 / 7/16/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/16/2002 / 7/16/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/16/2002 / 7/16/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/16/2002 / 7/16/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/16/2002 / 7/16/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020513**
DATE REPORTED: 29-Jul-02
DATE RECEIVED: 15-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/16/2002 / 7/16/2002
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/16/2002 / 7/16/2002
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	qh	7/16/2002 / 7/16/2002
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/16/2002 / 7/16/2002
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/16/2002 / 7/16/2002
Trichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/16/2002 / 7/16/2002
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	qh	7/16/2002 / 7/16/2002
Vinyl chloride	< 0.20	**ug/l**	0.20	0.64	1		8260	qh	7/16/2002 / 7/16/2002

Approved By: DC Chang/BR **Date:** 7/29/02

James Chang, Ph.D., Lab Director

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

APL INC.

INORGANIC REPORT

WDNR# 241340550

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

INVOICE NUMBER **20020535**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Sample Number: 29300		Matrix: GW							Collection: 7/22/2002		Time: 09:35
Client ID: **WA01P**									Sample Description: 020722		
Arsenic - Furnace AA	**<5.6**	**ug/l**		**RJ**	5.6	18	206.2	bb	7/29/2002	*1001569*	
Barium - ICAP	**0.12**	**mg/l**		**RJ**	0.007	0.02	200.7	am	7/26/2002	*1001500*	
Cadmium - Furnace AA	**<0.4**	**ug/l**		**RJ**	0.4	1.3	213.2	bb	7/31/2002	*1001575*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**			0.4	1.3	7131				
Chromium, Total - ICAP	**<0.008**	**mg/l**		**RJ**	0.008	0.03	200.7	am	7/26/2002	*1001500*	
Copper- ICAP	**<0.006**	**mg/l**		**RJ**	0.006	0.02	200.7	am	7/26/2002	*1001500*	
Iron - ICAP	**1.5**	**mg/l**		**RJ**	0.081	0.26	200.7	am	7/26/2002	*1001500*	
Lead - Furnace AA	**<1.5**	**ug/l**		**RJ**	1.5	4.8	239.2	nr	7/24/2002	*1001443*	
Manganese - ICAP	**0.21**	**mg/l**		**RJ**	0.006	0.02	200.7	am	7/26/2002	*1001500*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	am	7/25/2002	*1001466*	
Nickel - ICAP	**0.01**	**mg/l**	*J*	**RJ**	0.011	0.03	200.7	am	7/26/2002	*1001500*	
Selenium - Furnace AA	**<4.8**	**ug/l**		**RJ**	4.8	15	270.2	bb	7/30/2002	*1001566*	
Silver - ICAP	**<0.004**	**mg/l**		**RJ**	0.004	0.01	200.7	am	7/26/2002	*1001500*	
Thallium - Furnace AA	**1.6**	**ug/l**	*J*	**RJ**	1.3	4.1	279.2	nr	7/23/2002	*1001442*	
Zinc - ICAP	**0.02**	**mg/l**	*J*	**RJ**	0.014	0.04	200.7	am	7/26/2002	*1001500*	
Chromium, Hexavalent	**<0.042**	**mg/l**		**RJ**	0.004	0.01	SM 3500D	TM	7/23/2002		
Cyanide, Amenable	**<0.006**	**mg/l**		**RJ**	0.006	0.02	335.2	nr	7/31/2002	*1001597*	
Cyanide, Total	**0.03**	**mg/l**		**RJ**	0.006	0.02	335.2	nr	8/5/2002	*1001595*	
pH (water)	**7**	**s.u.**	#				150.1		7/22/2002		
Sample Number: 29301		Matrix: GW							Collection: 7/22/2002		Time: 09:30
Client ID: **WA05P**									Sample Description: 020722		
pH (water)	**7.4**	**s.u.**	#				150.1		7/22/2002		
Sample Number: 29303		Matrix: GW							Collection: 7/22/2002		Time: 09:40
Client ID: **WA09P**									Sample Description: 020722		
Chromium, Hexavalent	**<0.042**	**mg/l**		**RJ**	0.004	0.01	SM 3500D	TM	7/23/2002		
Cyanide, Amenable	**<0.006**	**mg/l**		**RJ**	0.006	0.02	335.2	nr	7/31/2002	*1001597*	
Cyanide, Total	**0.006**	**mg/l**	*J*	**RJ**	0.006	0.02	335.2	nr	8/5/2002	*1001595*	
pH (water)	**7.9**	**s.u.**	#				150.1		7/22/2002		

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20020535**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Sample Number: 29304 Matrix: GW
Client ID: **WA09R**
Collection: 7/22/2002 Time: 09:45
Sample Description: 020722

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	bb	7/29/2002	*1001569*	
Barium - ICAP	**0.1**	**mg/l**	**RJ**	0.007	0.02	200.7	am	7/26/2002	*1001500*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	bb	7/31/2002	*1001575*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**		0.4	1.3	7131				
Chromium, Total - ICAP	**<0.008**	**mg/l**	**RJ**	0.008	0.03	200.7	am	7/26/2002	*1001500*	
Copper- ICAP	**<0.006**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/26/2002	*1001500*	
Iron - ICAP	**0.23**	**mg/l**	***J*** **RJ**	0.081	0.26	200.7	am	7/26/2002	*1001500*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	nr	7/23/2002	*1001444*	
Manganese - ICAP	**0.02**	**mg/l**	**RJ**	0.006	0.02	200.7	am	7/26/2002	*1001500*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	am	7/25/2002	*1001466*	
Nickel - ICAP	**<0.011**	**mg/l**	**RJ**	0.011	0.03	200.7	am	7/26/2002	*1001500*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	bb	7/30/2002	*1001566*	
Silver - ICAP	**<0.004**	**mg/l**	**RJ**	0.004	0.01	200.7	am	7/26/2002	*1001500*	
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	7/23/2002	*1001442*	
Zinc - ICAP	**0.02**	**mg/l**	***J*** **RJ**	0.014	0.04	200.7	am	7/26/2002	*1001500*	

Approved By: _____ **Date:** 8/6/02
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*

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

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

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020535**
DATE REPORTED: 26-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Sample Number: 29300 — QC Prep Batch Number: 1001489 — Collection: 7/22/2002 — Time: 09:35
Client ID: WA01P — Sample Description: 020722

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,1,1,2-Tetrachloroethane	< 1.1	ug/l	1.1	3.5	5		8260	qh	7/23/2002 / 7/23/2002
1,1,1-Trichloroethane	57	ug/l	1.6	4.9	5		8260	qh	7/23/2002 / 7/23/2002
1,1,2,2-Tetrachloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/23/2002 / 7/23/2002
1,1,2-Trichloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloroethane	9.9	ug/l	1.6	5.1	5		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloroethene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloropropene	< 2.2	ug/l	2.2	6.8	5		8260	qh	7/23/2002 / 7/23/2002
1,2,3-Trichlorobenzene	< 2.5	ug/l	2.5	8.0	5		8260	qh	7/23/2002 / 7/23/2002
1,2,3-Trichloropropane	< 2.6	ug/l	2.6	8.1	5		8260	qh	7/23/2002 / 7/23/2002
1,2,4-Trichlorobenzene	< 2.4	ug/l	2.4	7.5	5		8260	qh	7/23/2002 / 7/23/2002
1,2,4-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/23/2002 / 7/23/2002
1,2-Dibromoethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichlorobenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichloroethane	< 1.8	ug/l	1.8	5.6	5		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichloropropane	< 1.6	ug/l	1.6	5.1	5		8260	qh	7/23/2002 / 7/23/2002
1,3,5-Trimethylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/23/2002 / 7/23/2002
1,3-Dichlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/23/2002 / 7/23/2002
1,3-Dichloropropane	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/23/2002 / 7/23/2002
1,4-Dichlorobenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/23/2002 / 7/23/2002
12Dibromo-3-chloropropan	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/23/2002 / 7/23/2002
2,2-Dichloropropane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/23/2002 / 7/23/2002
2-Butanone (MEK)	< 6.9	ug/l	6.9	22	5		8260	qh	7/23/2002 / 7/23/2002
2-Chloroethyl Vinyl Ether	< 3.5	ug/l	3.5	11	5		8260	qh	7/23/2002 / 7/23/2002
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/23/2002 / 7/23/2002
4-Chlorotoluene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/23/2002 / 7/23/2002
4-Methyl-2-Pentanone	< 4.0	ug/l	4.0	13	5		8260	qh	7/23/2002 / 7/23/2002
Acetone	< 7.8	ug/l	7.8	25	5		8260	qh	7/23/2002 / 7/23/2002
Benzene	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/23/2002 / 7/23/2002
Bromobenzene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/23/2002 / 7/23/2002
Bromochloromethane	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/23/2002 / 7/23/2002
Bromodichloromethane	< 1.9	ug/l	1.9	6.0	5		8260	qh	7/23/2002 / 7/23/2002
Bromoform	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/23/2002 / 7/23/2002
Bromomethane	< 3.3	ug/l	3.3	10	5		8260	qh	7/23/2002 / 7/23/2002
Carbon tetrachloride	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/23/2002 / 7/23/2002
Chlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/23/2002 / 7/23/2002
Chloroethane	< 3.2	ug/l	3.2	10	5		8260	qh	7/23/2002 / 7/23/2002
Chloroform	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/23/2002 / 7/23/2002
Chloromethane	< 2.5	ug/l	2.5	7.8	5		8260	qh	7/23/2002 / 7/23/2002
cis-1,2-Dichloroethene	27	ug/l	1.4	4.3	5		8260	qh	7/23/2002 / 7/23/2002
cis-1,3-Dichloropropene	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/23/2002 / 7/23/2002
Dibromochloromethane	< 2.1	ug/l	2.1	6.5	5		8260	qh	7/23/2002 / 7/23/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020535**
DATE REPORTED: 26-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dibromomethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/23/2002 / 7/23/2002
Dichlorodifluoromethane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/23/2002 / 7/23/2002
Ethylbenzene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/23/2002 / 7/23/2002
Hexachlorobutadiene	< 2.1	ug/l	2.1	6.7	5		8260	qh	7/23/2002 / 7/23/2002
Isopropyl Ether	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/23/2002 / 7/23/2002
Isopropylbenzene	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/23/2002 / 7/23/2002
m&p-xylene	< 2.7	ug/l	2.7	8.4	5		8260	qh	7/23/2002 / 7/23/2002
Methyl-t-butyl ether	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/23/2002 / 7/23/2002
Methylene chloride	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/23/2002 / 7/23/2002
n-Butylbenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/23/2002 / 7/23/2002
n-Propylbenzene	< 1.4	ug/l	1.4	4.5	5		8260	qh	7/23/2002 / 7/23/2002
Naphthalene	< 3.8	ug/l	3.8	12	5		8260	qh	7/23/2002 / 7/23/2002
o-xylene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/23/2002 / 7/23/2002
p-Isopropyltoluene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/23/2002 / 7/23/2002
sec-Butylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/23/2002 / 7/23/2002
Styrene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/23/2002 / 7/23/2002
tert-Butylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/23/2002 / 7/23/2002
Tetrachloroethene	1.8	ug/l	1.6	4.9	5	J	8260	qh	7/23/2002 / 7/23/2002
Toluene	< 1.5	ug/l	1.5	4.6	5		8260	qh	7/23/2002 / 7/23/2002
trans-1,2-Dichloroethene	9.8	ug/l	1.3	4.0	5		8260	qh	7/23/2002 / 7/23/2002
trans-1,3-Dichloropropene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/23/2002 / 7/23/2002
Trichloroethene	245	ug/l	1.7	5.4	5		8260	qh	7/23/2002 / 7/23/2002
Trichlorofluoromethane	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/23/2002 / 7/23/2002
Vinyl chloride	1.4	ug/l	1.0	3.2	5	J	8260	qh	7/23/2002 / 7/23/2002

Sample Number: 29302
Client ID: WA07P

QC Prep Batch Number: 1001489

Collection: 7/22/2002 Time: 09:33
Sample Description: 020722

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/23/2002 / 7/23/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/23/2002 / 7/23/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/23/2002 / 7/23/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/23/2002 / 7/23/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/23/2002 / 7/23/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/23/2002 / 7/23/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/23/2002 / 7/23/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020535**
DATE REPORTED: 26-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/23/2002 / 7/23/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/23/2002 / 7/23/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/23/2002 / 7/23/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/23/2002 / 7/23/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/23/2002 / 7/23/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/23/2002 / 7/23/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/23/2002 / 7/23/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/23/2002 / 7/23/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/23/2002 / 7/23/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/23/2002 / 7/23/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/23/2002 / 7/23/2002
cis-1,2-Dichloroethene	0.27	ug/l	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/23/2002 / 7/23/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/23/2002 / 7/23/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/23/2002 / 7/23/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/23/2002 / 7/23/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/23/2002 / 7/23/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/23/2002 / 7/23/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/23/2002 / 7/23/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/23/2002 / 7/23/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/23/2002 / 7/23/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020535**
DATE REPORTED: 26-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
Trichloroethene	1.1	**ug/l**	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	qh	7/23/2002 / 7/23/2002
Vinyl chloride	< 0.20	**ug/l**	0.20	0.64	1		8260	qh	7/23/2002 / 7/23/2002

Sample Number: 29303 QC Prep Batch Number: 1001489 Collection: 7/22/2002 Time: 09:40
Client ID: WA09P Sample Description: 020722

1,1,1,2-Tetrachloroethane	< 0.22	**ug/l**	0.22	0.70	1		8260	qh	7/23/2002 / 7/23/2002
1,1,1-Trichloroethane	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
1,1,2,2-Tetrachloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	qh	7/23/2002 / 7/23/2002
1,1,2-Trichloroethane	< 0.44	**ug/l**	0.44	1.4	1		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloroethane	< 0.32	**ug/l**	0.32	1.0	1		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
1,1-Dichloropropene	< 0.43	**ug/l**	0.43	1.4	1		8260	qh	7/23/2002 / 7/23/2002
1,2,3-Trichlorobenzene	< 0.50	**ug/l**	0.50	1.6	1		8260	qh	7/23/2002 / 7/23/2002
1,2,3-Trichloropropane	< 0.51	**ug/l**	0.51	1.6	1		8260	qh	7/23/2002 / 7/23/2002
1,2,4-Trichlorobenzene	< 0.47	**ug/l**	0.47	1.5	1		8260	qh	7/23/2002 / 7/23/2002
1,2,4-Trimethylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dibromoethane	< 0.46	**ug/l**	0.46	1.5	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichlorobenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichloroethane	< 0.35	**ug/l**	0.35	1.1	1		8260	qh	7/23/2002 / 7/23/2002
1,2-Dichloropropane	< 0.32	**ug/l**	0.32	1.0	1		8260	qh	7/23/2002 / 7/23/2002
1,3,5-Trimethylbenzene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
1,3-Dichlorobenzene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
1,3-Dichloropropane	< 0.39	**ug/l**	0.39	1.2	1		8260	qh	7/23/2002 / 7/23/2002
1,4-Dichlorobenzene	< 0.36	**ug/l**	0.36	1.1	1		8260	qh	7/23/2002 / 7/23/2002
12Dibromo-3-chloropropan	< 0.33	**ug/l**	0.33	1.0	1		8260	qh	7/23/2002 / 7/23/2002
2,2-Dichloropropane	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
2-Butanone (MEK)	< 1.4	**ug/l**	1.4	4.4	1		8260	qh	7/23/2002 / 7/23/2002
2-Chloroethyl Vinyl Ether	< 0.70	**ug/l**	0.70	2.2	1		8260	qh	7/23/2002 / 7/23/2002
2-Chlorotoluene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
4-Chlorotoluene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
4-Methyl-2-Pentanone	< 0.80	**ug/l**	0.80	2.5	1		8260	qh	7/23/2002 / 7/23/2002
Acetone	< 1.6	**ug/l**	1.6	4.9	1		8260	qh	7/23/2002 / 7/23/2002
Benzene	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
Bromobenzene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
Bromochloromethane	< 0.37	**ug/l**	0.37	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Bromodichloromethane	< 0.38	**ug/l**	0.38	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Bromoform	< 0.39	**ug/l**	0.39	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Bromomethane	< 0.65	**ug/l**	0.65	2.1	1		8260	qh	7/23/2002 / 7/23/2002
Carbon tetrachloride	< 0.27	**ug/l**	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
Chlorobenzene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
Chloroethane	< 0.64	**ug/l**	0.64	2.0	1		8260	qh	7/23/2002 / 7/23/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: 20020535
DATE REPORTED: 26-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/23/2002 / 7/23/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/23/2002 / 7/23/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/23/2002 / 7/23/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/23/2002 / 7/23/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/23/2002 / 7/23/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/23/2002 / 7/23/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/23/2002 / 7/23/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/23/2002 / 7/23/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/23/2002 / 7/23/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/23/2002 / 7/23/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/23/2002 / 7/23/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/23/2002 / 7/23/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/23/2002 / 7/23/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/23/2002 / 7/23/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/23/2002 / 7/23/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/23/2002 / 7/23/2002
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/23/2002 / 7/23/2002
Trichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/23/2002 / 7/23/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/23/2002 / 7/23/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/23/2002 / 7/23/2002

Sample Number: 29305
Client ID: Trip Blank

QC Prep Batch Number: 1001489

Collection: 7/22/2002 Time:
Sample Description: 020722

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	/ 7/23/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	/ 7/23/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	/ 7/23/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	/ 7/23/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	/ 7/23/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	/ 7/23/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	/ 7/23/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	/ 7/23/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	/ 7/23/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	/ 7/23/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	/ 7/23/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020535**
DATE REPORTED: 26-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,2-Dibromoethane	<0.46	ug/l	0.46	1.5	1		8260	qh	/ 7/23/2002
1,2-Dichlorobenzene	<0.34	ug/l	0.34	1.1	1		8260	qh	/ 7/23/2002
1,2-Dichloroethane	<0.35	ug/l	0.35	1.1	1		8260	qh	/ 7/23/2002
1,2-Dichloropropane	<0.32	ug/l	0.32	1.0	1		8260	qh	/ 7/23/2002
1,3,5-Trimethylbenzene	<0.34	ug/l	0.34	1.1	1		8260	qh	/ 7/23/2002
1,3-Dichlorobenzene	<0.26	ug/l	0.26	0.83	1		8260	qh	/ 7/23/2002
1,3-Dichloropropane	<0.39	ug/l	0.39	1.2	1		8260	qh	/ 7/23/2002
1,4-Dichlorobenzene	<0.36	ug/l	0.36	1.1	1		8260	qh	/ 7/23/2002
12Dibromo-3-chloropropan	<0.33	ug/l	0.33	1.0	1		8260	qh	/ 7/23/2002
2,2-Dichloropropane	<0.27	ug/l	0.27	0.86	1		8260	qh	/ 7/23/2002
2-Butanone (MEK)	<1.4	ug/l	1.4	4.4	1		8260	qh	/ 7/23/2002
2-Chloroethyl Vinyl Ether	<0.70	ug/l	0.70	2.2	1		8260	qh	/ 7/23/2002
2-Chlorotoluene	<0.30	ug/l	0.30	0.95	1		8260	qh	/ 7/23/2002
4-Chlorotoluene	<0.26	ug/l	0.26	0.83	1		8260	qh	/ 7/23/2002
4-Methyl-2-Pentanone	<0.80	ug/l	0.80	2.5	1		8260	qh	/ 7/23/2002
Acetone	<1.6	ug/l	1.6	4.9	1		8260	qh	/ 7/23/2002
Benzene	<0.27	ug/l	0.27	0.86	1		8260	qh	/ 7/23/2002
Bromobenzene	<0.31	ug/l	0.31	0.99	1		8260	qh	/ 7/23/2002
Bromochloromethane	<0.37	ug/l	0.37	1.2	1		8260	qh	/ 7/23/2002
Bromodichloromethane	<0.38	ug/l	0.38	1.2	1		8260	qh	/ 7/23/2002
Bromoform	<0.39	ug/l	0.39	1.2	1		8260	qh	/ 7/23/2002
Bromomethane	<0.65	ug/l	0.65	2.1	1		8260	qh	/ 7/23/2002
Carbon tetrachloride	<0.27	ug/l	0.27	0.86	1		8260	qh	/ 7/23/2002
Chlorobenzene	<0.26	ug/l	0.26	0.83	1		8260	qh	/ 7/23/2002
Chloroethane	<0.64	ug/l	0.64	2.0	1		8260	qh	/ 7/23/2002
Chloroform	<0.24	ug/l	0.24	0.76	1		8260	qh	/ 7/23/2002
Chloromethane	<0.49	ug/l	0.49	1.6	1		8260	qh	/ 7/23/2002
cis-1,2-Dichloroethene	<0.27	ug/l	0.27	0.86	1		8260	qh	/ 7/23/2002
cis-1,3-Dichloropropene	<0.37	ug/l	0.37	1.2	1		8260	qh	/ 7/23/2002
Dibromochloromethane	<0.41	ug/l	0.41	1.3	1		8260	qh	/ 7/23/2002
Dibromomethane	<0.46	ug/l	0.46	1.5	1		8260	qh	/ 7/23/2002
Dichlorodifluoromethane	<0.27	ug/l	0.27	0.86	1		8260	qh	/ 7/23/2002
Ethylbenzene	<0.25	ug/l	0.25	0.80	1		8260	qh	/ 7/23/2002
Hexachlorobutadiene	<0.42	ug/l	0.42	1.3	1		8260	qh	/ 7/23/2002
Isopropyl Ether	<0.30	ug/l	0.30	0.95	1		8260	qh	/ 7/23/2002
Isopropylbenzene	<0.33	ug/l	0.33	1.0	1		8260	qh	/ 7/23/2002
m&p-xylene	<0.53	ug/l	0.53	1.7	1		8260	qh	/ 7/23/2002
Methyl-t-butyl ether	<0.39	ug/l	0.39	1.2	1		8260	qh	/ 7/23/2002
Methylene chloride	<0.30	ug/l	0.30	0.95	1		8260	qh	/ 7/23/2002
n-Butylbenzene	<0.36	ug/l	0.36	1.1	1		8260	qh	/ 7/23/2002
n-Propylbenzene	<0.28	ug/l	0.28	0.89	1		8260	qh	/ 7/23/2002
Naphthalene	<0.75	ug/l	0.75	2.4	1		8260	qh	/ 7/23/2002
o-xylene	<0.25	ug/l	0.25	0.80	1		8260	qh	/ 7/23/2002
p-Isopropyltoluene	<0.31	ug/l	0.31	0.99	1		8260	qh	/ 7/23/2002
sec-Butylbenzene	<0.34	ug/l	0.34	1.1	1		8260	qh	/ 7/23/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020535**
DATE REPORTED: 26-Aug-02
DATE RECEIVED: 22-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME:

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	/ 7/23/2002
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	/ 7/23/2002
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	/ 7/23/2002
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	qh	/ 7/23/2002
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	/ 7/23/2002
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	/ 7/23/2002
Trichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	/ 7/23/2002
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	qh	/ 7/23/2002
Vinyl chloride	< 0.20	**ug/l**	0.20	0.64	1		8260	qh	/ 7/23/2002

Approved By: _____ **Date:** 8/26/02
James Chang, Ph.D., Lab Director

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

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

APL INC.

WDNR# 241340550

Dr. James Chang
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Milwaukee , WI 53223

INVOICE NUMBER **20020553**
DATE REPORTED: 03-Sep-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

Test	Result	Units		RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Sample Number: 29364		Matrix: GW							Collection: 7/29/2002		Time: 10:15
Client ID: **WA01P**									Sample Description: 020729		
Arsenic - Furnace AA	**<5.6**	**ug/l**		**RJ**	5.6	18	206.2	bb	7/29/2002	*1001569*	
Barium - ICAP	**0.09**	**mg/l**		**RJ**	0.007	0.02	200.7	am	8/15/2002	*1001691*	
Cadmium - Furnace AA	**<0.4**	**ug/l**		**RJ**	0.4	1.3	213.2	bb	7/31/2002	*1001575*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**			0.4	1.3	7131		7/31/2002		
Chromium, Total - ICAP	**0.01**	**mg/l**	*J*	**RJ**	0.008	0.03	200.7	am	8/15/2002	*1001691*	
Copper- ICAP	**0.32**	**mg/l**		**RJ**	0.006	0.02	200.7	am	8/15/2002	*1001691*	
Iron - ICAP	**0.94**	**mg/l**		**RJ**	0.081	0.26	200.7	am	8/15/2002	*1001691*	
Lead - Furnace AA	**<1.5**	**ug/l**		**RJ**	1.5	4.8	239.2	bb	8/1/2002	*1001585*	
Manganese - ICAP	**0.1**	**mg/l**		**RJ**	0.006	0.02	200.7	am	8/15/2002	*1001691*	
Mercury CV	**<0.0002**	**mg/l**		**RJ**	0.0002	0.0006	245.1	am	8/1/2002	*1001580*	
Nickel - ICAP	**<0.011**	**mg/l**		**RJ**	0.011	0.03	200.7	am	8/15/2002	*1001691*	
Selenium - Furnace AA	**<4.8**	**ug/l**		**RJ**	4.8	15	270.2	bb	7/30/2002	*1001566*	
Silver - ICAP	**0.005**	**mg/l**	*J*	**RJ**	0.004	0.01	200.7	am	8/15/2002	*1001691*	
Thallium - Furnace AA	**<1.3**	**ug/l**		**RJ**	1.3	4.1	279.2	nr	8/5/2002	*1001601*	
Zinc - ICAP	**0.1**	**mg/l**		**RJ**	0.014	0.04	200.7	am	8/15/2002	*1001691*	
Chromium, Hexavalent	**<0.004**	**mg/l**			0.004	0.01	SM 3500D		7/31/2002		*Test Am.*
Cyanide, Amenable	**<0.006**	**mg/l**		**RJ**	0.006	0.02	335.2	nr	7/31/2002	*1001597*	
Cyanide, Total	**0.01**	**mg/l**	*J*	**RJ**	0.006	0.02	335.2	nr	8/5/2002	*1001595*	
pH (water)	**6.9**	**s.u.**	#				150.1		7/29/2002		
Sample Number: 29365		Matrix: Waste							Collection: 7/29/2002		Time: 10:22
Client ID: **WA05P**									Sample Description: 020729		
pH (water)	**7.3**	**s.u.**	#				150.1		7/29/2002		
Sample Number: 29367		Matrix: GW							Collection: 7/29/2002		Time: 10:25
Client ID: **WA09P**									Sample Description: 020729		
Chromium, Hexavalent	**<0.004**	**mg/l**			0.004	0.01	SM 3500D		7/31/2002		*Test Am*
Cyanide, Amenable	**<0.006**	**mg/l**		**RJ**	0.006	0.02	335.2	nr	7/31/2002	*1001597*	
Cyanide, Total	**0.02**	**mg/l**		**RJ**	0.006	0.02	335.2	nr	8/5/2002	*1001596*	
pH (water)	**7.9**	**s.u.**	#				150.1		7/29/2002		

APL INC.

INORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER **20020553**
DATE REPORTED: 03-Sep-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Sample Number: 29368 Matrix: Waste
Client ID: **WA09R**
Collection: 7/29/2002 Time: 10:25
Sample Description: 020729

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Arsenic - Furnace AA	**<5.6**	**ug/l**	**RJ**	5.6	18	206.2	bb	7/29/2002	*1001569*	
Barium - ICAP	**0.09**	**mg/l**	**RJ**	0.007	0.02	200.7	am	8/18/2002	*1001703*	
Cadmium - Furnace AA	**<0.4**	**ug/l**	**RJ**	0.4	1.3	213.2	bb	7/31/2002	*1001575*	
Cadmium-Total Recoverable	**<0.4**	**ug/l**		0.4	1.3	7131		7/31/2002		
Chromium, Total - ICAP	**0.02**	**mg/l**	***J*** **RJ**	0.008	0.03	200.7	am	8/18/2002	*1001703*	
Copper- ICAP	**0.4**	**mg/l**	**RJ**	0.006	0.02	200.7	am	8/18/2002	*1001703*	
Iron - ICAP	**0.31**	**mg/l**	**RJ**	0.081	0.26	200.7	am	8/18/2002	*1001703*	
Lead - Furnace AA	**<1.5**	**ug/l**	**RJ**	1.5	4.8	239.2	bb	8/1/2002	*1001585*	
Manganese - ICAP	**0.02**	**mg/l**	**RJ**	0.006	0.02	200.7	am	8/18/2002	*1001703*	
Mercury CV	**<0.0002**	**mg/l**	**RJ**	0.0002	0.0006	245.1	am	8/1/2002	*1001580*	
Nickel - ICAP	**<0.011**	**mg/l**	**RJ**	0.011	0.03	200.7	am	8/18/2002	*1001703*	
Selenium - Furnace AA	**<4.8**	**ug/l**	**RJ**	4.8	15	270.2	bb	7/30/2002	*1001566*	
Silver - ICAP	**0.004**	**mg/l**	***J*** **RJ**	0.004	0.01	200.7	am	8/18/2002	*1001703*	
Thallium - Furnace AA	**<1.3**	**ug/l**	**RJ**	1.3	4.1	279.2	nr	8/5/2002	*1001601*	
Zinc - ICAP	**0.12**	**mg/l**	**RJ**	0.014	0.04	200.7	am	8/18/2002	*1001703*	

Approved By: James Chang AM **Date:** 9/3/02
James Chang, Ph.D. , Lab Director

RJ *Result expressed as Total.*

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

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

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020553**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Sample Number: 29364
Client ID: WA01P

QC Prep Batch Number: 1001583

Collection: 7/29/2002 Time: 10:15
Sample Description: 020729

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,1,1,2-Tetrachloroethane	< 1.1	ug/l	1.1	3.5	5		8260	qh	7/30/2002 / 7/30/2002
1,1,1-Trichloroethane	38	ug/l	1.6	4.9	5		8260	qh	7/30/2002 / 7/30/2002
1,1,2,2-Tetrachloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/30/2002 / 7/30/2002
1,1,2-Trichloroethane	< 2.2	ug/l	2.2	7.0	5		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethane	6.4	ug/l	1.6	5.1	5		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethene	7.9	ug/l	1.7	5.4	5		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloropropene	< 2.2	ug/l	2.2	6.8	5		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichlorobenzene	< 2.5	ug/l	2.5	8.0	5		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichloropropane	< 2.6	ug/l	2.6	8.1	5		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trichlorobenzene	< 2.4	ug/l	2.4	7.5	5		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/30/2002 / 7/30/2002
1,2-Dibromoethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichlorobenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloroethane	< 1.8	ug/l	1.8	5.6	5		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloropropane	< 1.6	ug/l	1.6	5.1	5		8260	qh	7/30/2002 / 7/30/2002
1,3,5-Trimethylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/30/2002 / 7/30/2002
1,3-Dichlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/30/2002 / 7/30/2002
1,3-Dichloropropane	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/30/2002 / 7/30/2002
1,4-Dichlorobenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/30/2002 / 7/30/2002
12Dibromo-3-chloropropan	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/30/2002 / 7/30/2002
2,2-Dichloropropane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/30/2002 / 7/30/2002
2-Butanone (MEK)	< 6.9	ug/l	6.9	22	5		8260	qh	7/30/2002 / 7/30/2002
2-Chloroethyl Vinyl Ether	< 3.5	ug/l	3.5	11	5		8260	qh	7/30/2002 / 7/30/2002
2-Chlorotoluene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/30/2002 / 7/30/2002
4-Chlorotoluene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/30/2002 / 7/30/2002
4-Methyl-2-Pentanone	< 4.0	ug/l	4.0	13	5		8260	qh	7/30/2002 / 7/30/2002
Acetone	< 7.8	ug/l	7.8	25	5		8260	qh	7/30/2002 / 7/30/2002
Benzene	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/30/2002 / 7/30/2002
Bromobenzene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/30/2002 / 7/30/2002
Bromochloromethane	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/30/2002 / 7/30/2002
Bromodichloromethane	< 1.9	ug/l	1.9	6.0	5		8260	qh	7/30/2002 / 7/30/2002
Bromoform	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/30/2002 / 7/30/2002
Bromomethane	< 3.3	ug/l	3.3	10	5		8260	qh	7/30/2002 / 7/30/2002
Carbon tetrachloride	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/30/2002 / 7/30/2002
Chlorobenzene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/30/2002 / 7/30/2002
Chloroethane	< 3.2	ug/l	3.2	10	5		8260	qh	7/30/2002 / 7/30/2002
Chloroform	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/30/2002 / 7/30/2002
Chloromethane	< 2.5	ug/l	2.5	7.8	5		8260	qh	7/30/2002 / 7/30/2002
cis-1,2-Dichloroethene	15	ug/l	1.4	4.3	5		8260	qh	7/30/2002 / 7/30/2002
cis-1,3-Dichloropropene	< 1.9	ug/l	1.9	5.9	5		8260	qh	7/30/2002 / 7/30/2002
Dibromochloromethane	< 2.1	ug/l	2.1	6.5	5		8260	qh	7/30/2002 / 7/30/2002

APL INC.
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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020553**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Dibromomethane	< 2.3	ug/l	2.3	7.3	5		8260	qh	7/30/2002 / 7/30/2002
Dichlorodifluoromethane	< 1.4	ug/l	1.4	4.3	5		8260	qh	7/30/2002 / 7/30/2002
Ethylbenzene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/30/2002 / 7/30/2002
Hexachlorobutadiene	< 2.1	ug/l	2.1	6.7	5		8260	qh	7/30/2002 / 7/30/2002
Isopropyl Ether	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/30/2002 / 7/30/2002
Isopropylbenzene	< 1.7	ug/l	1.7	5.2	5		8260	qh	7/30/2002 / 7/30/2002
m&p-xylene	< 2.7	ug/l	2.7	8.4	5		8260	qh	7/30/2002 / 7/30/2002
Methyl-t-butyl ether	< 2.0	ug/l	2.0	6.2	5		8260	qh	7/30/2002 / 7/30/2002
Methylene chloride	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/30/2002 / 7/30/2002
n-Butylbenzene	< 1.8	ug/l	1.8	5.7	5		8260	qh	7/30/2002 / 7/30/2002
n-Propylbenzene	< 1.4	ug/l	1.4	4.5	5		8260	qh	7/30/2002 / 7/30/2002
Naphthalene	< 3.8	ug/l	3.8	12	5		8260	qh	7/30/2002 / 7/30/2002
o-xylene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/30/2002 / 7/30/2002
p-Isopropyltoluene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/30/2002 / 7/30/2002
sec-Butylbenzene	< 1.7	ug/l	1.7	5.4	5		8260	qh	7/30/2002 / 7/30/2002
Styrene	< 1.3	ug/l	1.3	4.0	5		8260	qh	7/30/2002 / 7/30/2002
tert-Butylbenzene	< 1.5	ug/l	1.5	4.8	5		8260	qh	7/30/2002 / 7/30/2002
Tetrachloroethene	< 1.6	ug/l	1.6	4.9	5		8260	qh	7/30/2002 / 7/30/2002
Toluene	< 1.5	ug/l	1.5	4.6	5		8260	qh	7/30/2002 / 7/30/2002
trans-1,2-Dichloroethene	3.9	ug/l	1.3	4.0	5	J	8260	qh	7/30/2002 / 7/30/2002
trans-1,3-Dichloropropene	< 1.3	ug/l	1.3	4.1	5		8260	qh	7/30/2002 / 7/30/2002
Trichloroethene	165	ug/l	1.7	5.4	5		8260	qh	7/30/2002 / 7/30/2002
Trichlorofluoromethane	< 1.2	ug/l	1.2	3.8	5		8260	qh	7/30/2002 / 7/30/2002
Vinyl chloride	1.1	ug/l	1.0	3.2	5	J	8260	qh	7/30/2002 / 7/30/2002

Sample Number: 29366 QC Prep Batch Number: 1001583 Collection: 7/29/2002 Time: 10:30
Client ID: WA07P Sample Description: 020729

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/30/2002 / 7/30/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/30/2002 / 7/30/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020553**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/30/2002 / 7/30/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/30/2002 / 7/30/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/30/2002 / 7/30/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/30/2002 / 7/30/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/30/2002 / 7/30/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/30/2002 / 7/30/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/30/2002 / 7/30/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/30/2002 / 7/30/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/30/2002 / 7/30/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/30/2002 / 7/30/2002
cis-1,2-Dichloroethene	0.46	ug/l	0.27	0.86	1	J	8260	qh	7/30/2002 / 7/30/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/30/2002 / 7/30/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/30/2002 / 7/30/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/30/2002 / 7/30/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/30/2002 / 7/30/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/30/2002 / 7/30/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/30/2002 / 7/30/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/30/2002 / 7/30/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/30/2002 / 7/30/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/30/2002 / 7/30/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020553**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
Trichloroethene	1.8	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/30/2002 / 7/30/2002
Vinyl chloride	0.28	ug/l	0.20	0.64	1	J	8260	qh	7/30/2002 / 7/30/2002

Sample Number: 29367 QC Prep Batch Number: 1001583 Collection: 7/29/2002 Time: 10:25
Client ID: WA09P Sample Description: 020729

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/30/2002 / 7/30/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/30/2002 / 7/30/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/30/2002 / 7/30/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/30/2002 / 7/30/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/30/2002 / 7/30/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/30/2002 / 7/30/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/30/2002 / 7/30/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/30/2002 / 7/30/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/30/2002 / 7/30/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/30/2002 / 7/30/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020553**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/30/2002 / 7/30/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/30/2002 / 7/30/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/30/2002 / 7/30/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/30/2002 / 7/30/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/30/2002 / 7/30/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/30/2002 / 7/30/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/30/2002 / 7/30/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/30/2002 / 7/30/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/30/2002 / 7/30/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/30/2002 / 7/30/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
Styrene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
tert-Butylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
Tetrachloroethene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
Toluene	< 0.29	ug/l	0.29	0.92	1		8260	qh	7/30/2002 / 7/30/2002
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
trans-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
Trichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
Trichlorofluoromethane	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/30/2002 / 7/30/2002
Vinyl chloride	< 0.20	ug/l	0.20	0.64	1		8260	qh	7/30/2002 / 7/30/2002

Sample Number: 29369
Client ID: Trip Blk

QC Prep Batch Number: 1001583

Collection: 7/29/2002 Time:
Sample Description: 020729

1,1,1,2-Tetrachloroethane	< 0.22	ug/l	0.22	0.70	1		8260	qh	7/30/2002 / 7/30/2002
1,1,1-Trichloroethane	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
1,1,2,2-Tetrachloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,1,2-Trichloroethane	< 0.44	ug/l	0.44	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloroethene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,1-Dichloropropene	< 0.43	ug/l	0.43	1.4	1		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichlorobenzene	< 0.50	ug/l	0.50	1.6	1		8260	qh	7/30/2002 / 7/30/2002
1,2,3-Trichloropropane	< 0.51	ug/l	0.51	1.6	1		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trichlorobenzene	< 0.47	ug/l	0.47	1.5	1		8260	qh	7/30/2002 / 7/30/2002
1,2,4-Trimethylbenzene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002

APL INC.
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Phone: (414) 355-5800 Fax: (414) 355-3099

ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020553**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
1,2-Dibromoethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloroethane	< 0.35	ug/l	0.35	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,2-Dichloropropane	< 0.32	ug/l	0.32	1.0	1		8260	qh	7/30/2002 / 7/30/2002
1,3,5-Trimethylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
1,3-Dichlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
1,3-Dichloropropane	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/30/2002 / 7/30/2002
12Dibromo-3-chloropropan	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/30/2002 / 7/30/2002
2,2-Dichloropropane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
2-Butanone (MEK)	< 1.4	ug/l	1.4	4.4	1		8260	qh	7/30/2002 / 7/30/2002
2-Chloroethyl Vinyl Ether	< 0.70	ug/l	0.70	2.2	1		8260	qh	7/30/2002 / 7/30/2002
2-Chlorotoluene	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
4-Methyl-2-Pentanone	< 0.80	ug/l	0.80	2.5	1		8260	qh	7/30/2002 / 7/30/2002
Acetone	< 1.6	ug/l	1.6	4.9	1		8260	qh	7/30/2002 / 7/30/2002
Benzene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Bromobenzene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
Bromochloromethane	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromodichloromethane	< 0.38	ug/l	0.38	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromoform	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Bromomethane	< 0.65	ug/l	0.65	2.1	1		8260	qh	7/30/2002 / 7/30/2002
Carbon tetrachloride	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
Chloroethane	< 0.64	ug/l	0.64	2.0	1		8260	qh	7/30/2002 / 7/30/2002
Chloroform	< 0.24	ug/l	0.24	0.76	1		8260	qh	7/30/2002 / 7/30/2002
Chloromethane	< 0.49	ug/l	0.49	1.6	1		8260	qh	7/30/2002 / 7/30/2002
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
cis-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Dibromochloromethane	< 0.41	ug/l	0.41	1.3	1		8260	qh	7/30/2002 / 7/30/2002
Dibromomethane	< 0.46	ug/l	0.46	1.5	1		8260	qh	7/30/2002 / 7/30/2002
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.86	1		8260	qh	7/30/2002 / 7/30/2002
Ethylbenzene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
Hexachlorobutadiene	< 0.42	ug/l	0.42	1.3	1		8260	qh	7/30/2002 / 7/30/2002
Isopropyl Ether	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
Isopropylbenzene	< 0.33	ug/l	0.33	1.0	1		8260	qh	7/30/2002 / 7/30/2002
m&p-xylene	< 0.53	ug/l	0.53	1.7	1		8260	qh	7/30/2002 / 7/30/2002
Methyl-t-butyl ether	< 0.39	ug/l	0.39	1.2	1		8260	qh	7/30/2002 / 7/30/2002
Methylene chloride	< 0.30	ug/l	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
n-Butylbenzene	< 0.36	ug/l	0.36	1.1	1		8260	qh	7/30/2002 / 7/30/2002
n-Propylbenzene	< 0.28	ug/l	0.28	0.89	1		8260	qh	7/30/2002 / 7/30/2002
Naphthalene	< 0.75	ug/l	0.75	2.4	1		8260	qh	7/30/2002 / 7/30/2002
o-xylene	< 0.25	ug/l	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
sec-Butylbenzene	< 0.34	ug/l	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002

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ORGANIC REPORT

WDNR# 241340550

BATCH NUMBER: **20020553**
DATE REPORTED: 06-Aug-02
DATE RECEIVED: 29-Jul-02
SAMPLE TEMP (C): Rec On Ice
PROJECT ID:
PROJECT NAME: OGTP

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

Compound	Result	Units	LOD	LOQ	Dilution	RQ	Method	Analyst	Date Ext/Anal
Styrene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
tert-Butylbenzene	< 0.30	**ug/l**	0.30	0.95	1		8260	qh	7/30/2002 / 7/30/2002
Tetrachloroethene	< 0.31	**ug/l**	0.31	0.99	1		8260	qh	7/30/2002 / 7/30/2002
Toluene	< 0.29	**ug/l**	0.29	0.92	1		8260	qh	7/30/2002 / 7/30/2002
trans-1,2-Dichloroethene	< 0.25	**ug/l**	0.25	0.80	1		8260	qh	7/30/2002 / 7/30/2002
trans-1,3-Dichloropropene	< 0.26	**ug/l**	0.26	0.83	1		8260	qh	7/30/2002 / 7/30/2002
Trichloroethene	< 0.34	**ug/l**	0.34	1.1	1		8260	qh	7/30/2002 / 7/30/2002
Trichlorofluoromethane	< 0.24	**ug/l**	0.24	0.76	1		8260	qh	7/30/2002 / 7/30/2002
Vinyl chloride	< 0.20	**ug/l**	0.20	0.64	1		8260	qh	7/30/2002 / 7/30/2002

Approved By: _____ **Date:** 8/6/02
James Chang, Ph.D., Lab Director

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

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.